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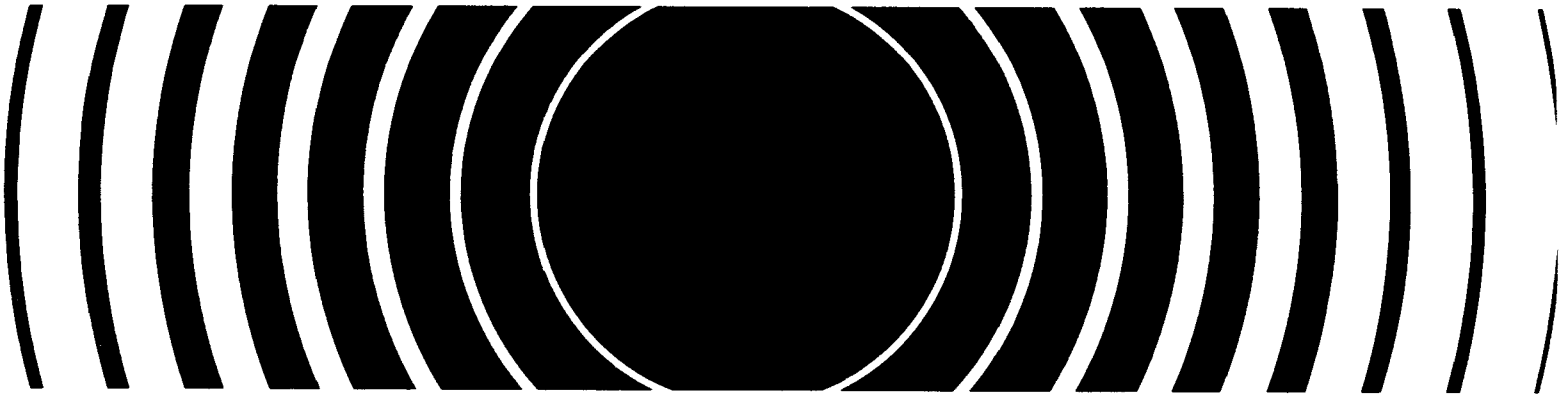
An Estimate of the Potential Costs of Guidelines Limiting Public Exposure to Radiofrequency Radiation from Broadcast Sources

Volume 2: Appendix
Part 1



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AN ESTIMATE OF THE POTENTIAL COSTS OF GUIDELINES LIMITING PUBLIC EXPOSURE TO RADIOFREQUENCY RADIATION FROM BROADCAST SOURCES

Volume 2: Appendix
Part 1

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PREFACE

The purpose of the study reported here is to estimate the potential cost of a federal guidance proposed by the Environmental Protection Agency (EPA) limiting public exposure to radiofrequency (RF) radiation. An estimate of the economic effects of proposed federal actions is mandated by a series of Executive Orders (EOs), the latest of which is EO 12291, Federal Regulation, which is implemented by an Office of Management and Budget guidance on regulatory impact analysis and, in EPA, by a companion guideline for performing regulatory impact analyses. The federal radiofrequency radiation protection guidance has been developed by the EPA under the Federal Radiation Council Authority, 42 U.S.C. 2021(h), transferred to EPA by EO 10831, Reorganization Plan Number 3 of 1970 and by Public Law 86-373.

The EPA has conducted research over the past 12 years on the electromagnetic environment to which the public is exposed and on the propagation of RF by a wide variety of sources, the most significant of which are AM and FM radio, VHF-TV and UHF-TV broadcast stations. The cost study is limited to these significant sources of RF. One of the results of this study, in conjunction with EPA research, is a conceptual development of the type of mitigation measures necessary to effect compliance, as indicated by model results at 18 alternative guidance levels ranging from 1 $\mu W/cm^2$ (FM and TV) or 10 V/m (AM) to 10,000 $\mu W/cm^2$ (FM and TV) or 1,000 V/m (AM). The cost of compliance was estimated using a series of models that present a range (low, medium, and high) of costs to society-at-large, costs to the broadcast industry and costs to and effects on the net income of the average broadcast station. The costs are expressed in a variety of ways, including gross cost, net annual cash flow cost, average annual cash flow cost, and present value.

The report is organized into two volumes, the first a description of the study and a summary of results, the second a series of appendices containing an explanation and sample of the calculations for each of the three segments of the broadcast industry; the appendices also include detailed tabular and graphic descriptions of various cost estimates at each of the 18 guidance levels at the three cost levels. Volume I begins with a preface, executive summary, and abstract, followed by an introduction in which a discussion of the purpose and scope of the study lead to an extensive graphic presentation of conclusions supported by summary tables. Following this is a background section outlining the purpose for and current efforts to regulate RF radiation, public and industry concerns over RF and

its regulation, a brief review of the electromagnetic environment and of health effects research, a profile of commercial broadcast facilities and a discussion of the framework for regulatory (economic) impact analyses.

The next section describes the method of approach used in the cost study. Following this is a section describing the compliance measure concepts developed by the EPA and consultants as part of this study. The remaining section describes the cost models--social, industry, and average firm. All assumptions, including costs, application of compliance measures and financial parameters, are discussed throughout and summarized at the conclusion of Volume I for convenience.

Volume II contains three appendices, one each for AM and FM radio and TV broadcast stations, that present a step-by-step explanation of each of the calculations in the cost models. Those are followed by other appendices that present detailed estimates of the cost of compliance with 18 guidance levels at three cost levels, given in terms of the cost to society-at-large, the cost to industry, and the cost to the average broadcast firm; in addition, the number of stations requiring a compliance measure at each guidance level is given. The average annual cash flow cost and present value estimates are plotted for each of the three analyses (social, industry, and average firm) at three cost levels. These are supported by data in the tables, which also contain other cost analyses not plotted.

This two-volume report is one of a number of documents presenting research that was used to develop the proposed RF guidance and provide analyses for reviewers and decision makers considering it. A presentation of the engineering and health studies is contained in three reports published or in preparation by the U.S. Environmental Protection Agency. A review of over 5000 citations of health risks and biological effects of RF is given in U.S. Environmental Protection Agency, Biological Effects of Radiofrequency Radiation, J. A. Elder and D. F. Cahill Eds., Health Effects Research Laboratory, Research Triangle Park, North Carolina, EPA-600/8-83-026F, September 1984. A study of the engineering aspects of radiofrequency radiation is contained in Gailey, P. C. and R. A. Tell, An Engineering Assessment of the Potential Impact of Federal Radiation Protection Guidance on the AM, FM, and TV Broadcast Services, U.S. Environmental Protection Agency, Washington, D.C. (in press). A third report has been prepared on the radiofrequency environment: Hankin, N. N., The Radiofrequency Radiation Environment; Environmental Exposure Levels and RF-Emitting Sources, U.S. Environmental Protection Agency, Washington, D.C. (in press).

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APPENDIX A
ECONOMIC METHODOLOGY: SAMPLE COMPUTATIONS AND ENGINEERING DATA FOR FM RADIO STATIONS

The object of this appendix is to present a detailed sample calculation of the total social, industry, and average firm cost of complying with guidelines limiting public exposure to radiofrequency radiation. In Volume 1, the cost analysis is presented for eighteen field strength guidance levels at three cost levels. For the sample calculation, guidance level 6 (i.e., 100 $\mu W/cm^2$) at the medium cost level is analyzed. The cost to society-at-large of the 100 $\mu W/cm^2$ standard is expressed in terms of the total gross cost, the annual cash flow cost, and the present value. The cost to industry is expressed in terms of annual net cash flow cost over a period of ten years, the average cost over the 10-year period, and the present value of the 10-year cost stream. The cost to the average firm is presented in terms of the annual net cash flow cost, the average cost, and the average present value for the average profitable station.

REQUIRED DATA AND DEFINITIONS

The cost analyses address six compliance measures (termed fixes) that are used to achieve compliance at each of 18 power density levels. The cost of these six fixes at each of three cost levels is given in Table A-1. Fix 1 is the placement of signs warning the public of over-guidance radiofrequency radiation at very remote antennas, but this measure is not used in the analysis except in a small comparison study described in Volume 1. Fix 2 involves replacement of the antenna with an off-the-shelf model of the same gain or number of elements, but with reduced downward radiation. Because the price of FM antennas varies directly with the number of bays, it is necessary to know how many stations require antennas of what size. Table A-2 lists FM stations for each of the 18 power density levels whose antennas are installed alone on ground-mounted towers by the size of antenna (number of bays or elements in the antenna). Column 1 gives the antenna size; column 2 gives the total number of stations in the EPA data base whose signal exceeds the given power density. It is the sum of columns 3 through 6. Column 3 gives the number of stations distributed by antenna size that would comply with the given power density limit with installation of an off-the-shelf model, Fix 2. Column 4 gives the number of stations by antenna size for which a specially designed half-wavelength antenna would be required to achieve compliance, Fix 3. Column 5 gives the stations that would require a specific type of half-wavelength antenna. These were combined with the stations in Fix 3 for the cost analysis. Column 6 gives the remainder of the stations for

Table A-1. Costs of compliance measures for FM radio broadcast stations.[a]

a. Compliance measure 1. Post area exposed to over-standard levels of RF.

	Cost per station		
	Low	Medium	High
Cost of signs	$2,000	$2,000	$2,000

b. Compliance measure 2. Replace existing FM antenna with new model having smaller grating lobe.

	Cost per station		
Number of bays	Low	Medium	High
1	$ 1,750	$ 4,690	$ 6,650
2	3,500	8,300	11,500
3	5,300	12,200	16,725
4	7,000	16,200	22,300
5	8,800	21,100	27,700
6	11,400	24,300	32,850
7	13,200	28,300	38,350
8	15,000	32,700	44,500
9	16,700	36,900	50,275
10	18,500	41,000	56,050
11	20,200	44,700	60,960
12	22,000	50,000	65,870
13	26,000	54,200	73,060
14	27,900	59,300	80,250
16	31,700	67,700	91,720

c. Compliance measure 3. Replace existing FM antenna with new antenna whose elements are spaced $\lambda/2$ apart.

	Cost per station		
Number of bays	Low	Medium	High
1	$ 1,750	$ 4,690	$ 6,650
2	5,950	14,110	19,550
3	9,540	21,960	30,105
4	13,125	30,375	41,813
5	16,500	39,550	51,950
6	21,375	45,575	61,600
7	24,750	53,075	71,900
8	28,125	61,325	83,450
9	31,325	69,200	94,275
10	34,700	76,875	105,100
11	37,875	83,825	114,300
12	41,250	93,750	123,500
13	48,750	101,625	137,000
14	52,325	111,200	150,475
16	59,450	126,950	171,975

Table A-1. (continued)

d. Compliance measure 4. Lease space for an FM radio broadcast antenna on another, existing tower, presented as the present value (PV) discounted at 10% over 50 years.

	Cost per station		
	Low	Medium	High
Equipment	$17,000	$23,000	$27,000
Lease (PV)	29,750	59,500	89,250
Total	$46,750	$82,500	$116,250

e. Compliance measure 5. Build taller tower on same site as existing tower.

Height (≤) of new tower (ft)	Cost per station		
	Low	Medium	High
50	$14,100	$24,500	$ 32,800
75	15,700	26,800	35,900
100	17,300	29,200	39,000
125	19,600	32,600	43,500
150	21,900	36,000	48,000
175	24,100	39,200	52,300
200	26,500	42,800	57,000
250	30,500	48,700	64,800
300	36,100	56,900	75,700
350	46,700	72,600	96,500
400	54,000	83,400	110,700
500	81,800	105,900	130,000

f. Compliance measure 6. Build new tower on new site.

Height (≤) of new tower (ft)	Cost per station		
	Low	Medium	High
100	$60,000	$117,500	$175,000
150	62,500	120,750	179,000
200	65,000	124,500	184,000
250	67,500	128,250	189,000
300	75,000	140,000	205,000
350	80,000	151,000	222,000
400	80,000	151,000	222,000
500	95,000	180,000	265,000

[a] Derived from Table 9, Volume 1.

TABLE A-2. AN ANALYSIS OF THE REQUIREMENTS FOR COMPLIANCE WITH GUIDELINES LIMITING PUBLIC EXPOSURE TO RADIOFREQUENCY RADIATION FROM SINGLE, GROUND-MOUNTED FM RADIO STATIONS IS GIVEN FOR 18 POWER DENSITY LEVELS. SOURCE: EPA ORP, LAS VEGAS, NV.

1 MICROWATT PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA *	BETTER 1/2 WAVE ANTENNA *	UNFIXABLE **
1	66	25	Ø	Ø	41
2	295	113	32	27	123
3	628	229	197	69	133
4	515	132	223	42	118
5	162	19	37	14	92
6	369	2Ø	111	43	195
7	92	15	47	5	25
8	176	11	8Ø	23	62
9	14	Ø	1Ø	1	3
1Ø	221	Ø	76	59	86
11	2Ø	Ø	12	5	3
12	311	2	222	48	39
13	3	1	2	Ø	Ø
14	31	Ø	28	1	2
16	5	1	4	Ø	Ø
TOTALS	2908	568	1Ø81	337	922

1Ø MICROWATTS PER SQ. CM

1	41	12	14	3	12
2	223	76	118	5	24
3	513	369	122	1	21
4	436	267	148	1	2Ø
5	142	28	83	4	27
6	341	56	241	1	43
7	82	39	36	Ø	7
8	16Ø	3Ø	12Ø	Ø	1Ø
9	14	1	11	Ø	2
1Ø	2Ø4	9	18Ø	2	13
11	2Ø	1	19	Ø	Ø
12	27Ø	35	23Ø	2	3
13	3	2	1	Ø	Ø
14	21	1Ø	11	Ø	Ø
16	2	2	Ø	Ø	Ø
TOTALS	2472	937	1334	19	182

*Combined for Fix 3.

**Fixes 4, 5, 6 used.

TABLE A-2. CONTINUED

20 MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	29	13	9	1	6
2	146	62	72	2	10
3	318	241	64	3	10
4	311	218	79	3	11
5	123	36	66	3	18
6	300	93	181	6	20
7	63	34	26	0	3
8	141	39	95	0	7
9	13	4	7	1	1
10	192	43	144	2	3
11	20	9	11	0	0
12	239	103	134	0	2
13	2	2	0	0	0
14	20	13	7	0	0
16	0	0	0	0	0
TOTALS	1917	910	895	21	91

50 MICROWATTS PER SQ. CM

1	11	5	1	2	3
2	69	33	35	0	1
3	122	82	32	2	6
4	153	106	41	2	4
5	90	36	44	2	8
6	227	126	93	1	7
7	41	25	16	0	0
8	105	61	42	1	1
9	7	4	3	0	0
10	163	85	77	0	1
11	18	15	3	0	0
12	187	141	46	0	0
13	1	1	0	0	0
14	12	9	3	0	0
16	0	0	0	0	0
TOTALS	1206	729	436	10	31

TABLE A-2. CONTINUED

75 MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	7	1	3	1	2
2	41	13	27	1	Ø
3	72	44	22	1	5
4	1Ø3	69	31	Ø	3
5	83	43	35	Ø	5
6	198	128	64	Ø	6
7	32	21	11	Ø	Ø
8	94	63	3Ø	Ø	1
9	7	4	3	Ø	Ø
1Ø	151	99	52	Ø	Ø
11	17	17	Ø	Ø	Ø
12	17Ø	144	26	Ø	Ø
13	1	1	Ø	Ø	Ø
14	7	6	1	Ø	Ø
16	Ø	Ø	Ø	Ø	Ø
TOTALS	983	653	3Ø5	3	22

1ØØ MICROWATTS PER SQ. CM

1	6	1	4	Ø	1
2	35	13	22	Ø	Ø
3	59	38	16	1	4
4	81	55	24	Ø	2
5	72	38	29	1	4
6	172	113	56	2	1
7	3Ø	19	11	Ø	Ø
8	89	63	26	Ø	Ø
9	7	4	3	Ø	Ø
1Ø	145	1Ø2	43	Ø	Ø
11	16	16	Ø	Ø	Ø
12	159	143	16	Ø	Ø
13	1	1	Ø	Ø	Ø
14	6	5	1	Ø	Ø
16	Ø	Ø	Ø	Ø	Ø
TOTALS	878	611	251	4	12

TABLE A-2. CONTINUED

200 MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	5	3	2	0	0
2	19	10	9	0	0
3	30	19	10	0	1
4	43	26	16	0	1
5	48	26	22	0	0
6	111	76	34	1	0
7	23	15	8	0	0
8	68	52	16	0	0
9	3	1	2	0	0
10	107	84	23	0	0
11	9	9	0	0	0
12	90	85	5	0	0
13	0	0	0	0	0
14	4	4	0	0	0
16	0	0	0	0	0
TOTALS	560	410	147	1	2

300 MICROWATTS PER SQ. CM

1	4	3	1	0	0
2	10	6	4	0	0
3	22	13	8	1	0
4	28	16	12	0	0
5	40	27	13	0	0
6	75	54	21	0	0
7	15	9	6	0	0
8	44	35	9	0	0
9	2	0	2	0	0
10	83	66	17	0	0
11	6	6	0	0	0
12	68	65	3	0	0
13	0	0	0	0	0
14	3	3	0	0	0
16	0	0	0	0	0
TOTALS	400	303	96	1	0

TABLE A-2. CONTINUED

400 MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	1	1	0	0	0
2	4	2	2	0	0
3	18	12	6	0	0
4	20	11	9	0	0
5	34	23	11	0	0
6	61	45	16	0	0
7	12	7	5	0	0
8	32	23	9	0	0
9	2	1	1	0	0
10	55	44	11	0	0
11	3	3	0	0	0
12	36	34	2	0	0
13	0	0	0	0	0
14	2	2	0	0	0
16	0	0	0	0	0
TOTALS	280	208	72	0	0

500 MICROWATTS PER SQ. CM

1	0	0	0	0	0
2	3	2	1	0	0
3	15	9	6	0	0
4	16	9	7	0	0
5	28	17	11	0	0
6	50	38	12	0	0
7	9	6	3	0	0
8	24	17	7	0	0
9	2	1	1	0	0
10	47	40	7	0	0
11	2	2	0	0	0
12	27	25	2	0	0
13	0	0	0	0	0
14	2	2	0	0	0
16	0	0	0	0	0
TOTALS	225	168	57	0	0

TABLE A-2. CONTINUED

600 MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	0	0	0	0	0
2	3	3	0	0	0
3	13	8	5	0	0
4	13	8	5	0	0
5	25	17	8	0	0
6	39	31	8	0	0
7	6	4	2	0	0
8	20	13	7	0	0
9	2	1	1	0	0
10	39	34	5	0	0
11	2	2	0	0	0
12	24	22	2	0	0
13	0	0	0	0	0
14	2	2	0	0	0
16	0	0	0	0	0
TOTALS	188	145	43	0	0

700 MICROWATTS PER SQ. CM

1	0	0	0	0	0
2	1	1	0	0	0
3	12	7	5	0	0
4	13	8	5	0	0
5	22	14	8	0	0
6	37	29	8	0	0
7	6	4	2	0	0
8	16	9	7	0	0
9	2	1	1	0	0
10	30	29	1	0	0
11	0	0	0	0	0
12	18	17	1	0	0
13	0	0	0	0	0
14	1	1	0	0	0
16	0	0	0	0	0
TOTALS	158	120	38	0	0

TABLE A-2. CONTINUED

800 MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	0	0	0	0	0
2	1	1	0	0	0
3	12	8	4	0	0
4	12	7	5	0	0
5	21	14	7	0	0
6	31	25	6	0	0
7	6	5	1	0	0
8	14	8	6	0	0
9	2	1	1	0	0
10	27	26	1	0	0
11	0	0	0	0	0
12	15	14	1	0	0
13	0	0	0	0	0
14	1	1	0	0	0
16	0	0	0	0	0
TOTALS	142	110	32	0	0

900 MICROWATTS PER SQ. CM

1	0	0	0	0	0
2	1	1	0	0	0
3	10	6	4	0	0
4	11	7	4	0	0
5	19	13	6	0	0
6	28	22	6	0	0
7	6	5	1	0	0
8	11	7	4	0	0
9	2	1	1	0	0
10	23	22	1	0	0
11	0	0	0	0	0
12	12	11	1	0	0
13	0	0	0	0	0
14	1	1	0	0	0
16	0	0	0	0	0
TOTALS	124	96	28	0	0

TABLE A-2. CONTINUED

1000 MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	0	0	0	0	0
2	1	1	0	0	0
3	9	7	2	0	0
4	10	7	3	0	0
5	19	14	5	0	0
6	28	22	6	0	0
7	5	5	0	0	0
8	8	5	3	0	0
9	2	1	1	0	0
10	21	20	1	0	0
11	0	0	0	0	0
12	12	11	1	0	0
13	0	0	0	0	0
14	1	1	0	0	0
16	0	0	0	0	0
TOTALS	116	94	22	0	0

2000 MICROWATTS PER SQ. CM

1	0	0	0	0	0
2	0	0	0	0	0
3	8	7	1	0	0
4	4	2	2	0	0
5	11	8	3	0	0
6	17	16	1	0	0
7	3	3	0	0	0
8	3	2	1	0	0
9	1	1	0	0	0
10	8	7	1	0	0
11	0	0	0	0	0
12	3	3	0	0	0
13	0	0	0	0	0
14	1	1	0	0	0
16	0	0	0	0	0
TOTALS	59	50	9	0	0

TABLE A-2. CONTINUED

5ØØØ MICROWATTS PER SQ. CM

NUMBER OF BAYS	TOTAL STATIONS REQUIRING COMPLIANCE	BETTER STANDARD ANTENNA	NEW 1/2 WAVE ANTENNA	BETTER 1/2 WAVE ANTENNA	UNFIXABLE
1	Ø	Ø	Ø	Ø	Ø
2	Ø	Ø	Ø	Ø	Ø
3	4	4	Ø	Ø	Ø
4	Ø	Ø	Ø	Ø	Ø
5	2	2	Ø	Ø	Ø
6	4	4	Ø	Ø	Ø
7	1	1	Ø	Ø	Ø
8	2	2	Ø	Ø	Ø
9	Ø	Ø	Ø	Ø	Ø
1Ø	2	2	Ø	Ø	Ø
11	Ø	Ø	Ø	Ø	Ø
12	Ø	Ø	Ø	Ø	Ø
13	Ø	Ø	Ø	Ø	Ø
14	Ø	Ø	Ø	Ø	Ø
16	Ø	Ø	Ø	Ø	Ø
TOTALS	15	15	Ø	Ø	Ø

1ØØØØ MICROWATTS PER SQ. CM

1	Ø	Ø	Ø	Ø	Ø
2	Ø	Ø	Ø	Ø	Ø
3	1	1	Ø	Ø	Ø
4	Ø	Ø	Ø	Ø	Ø
5	Ø	Ø	Ø	Ø	Ø
6	1	1	Ø	Ø	Ø
7	Ø	Ø	Ø	Ø	Ø
8	1	1	Ø	Ø	Ø
9	Ø	Ø	Ø	Ø	Ø
1Ø	Ø	Ø	Ø	Ø	Ø
11	Ø	Ø	Ø	Ø	Ø
12	Ø	Ø	Ø	Ø	Ø
13	Ø	Ø	Ø	Ø	Ø
14	Ø	Ø	Ø	Ø	Ø
16	Ø	Ø	Ø	Ø	Ø
TOTALS	3	3	Ø	Ø	Ø

which Fix 2 and 3 would be insufficient to achieve compliance at the given power density level. These "unfixable" stations are distributed among 3 additional measures according to the percentages given in Table A-3. Table A-4 lists FM stations by the size of the antenna whose antennas are co-mounted with one or more others on a ground-mounted tower. The descriptions of the data are identical to those for Table A-2.

The medium-level cost of Fix 2 for both single-mounted FM (denoted SFM) and multiple-mounted FM (denoted MFM) stations for the 100 $\mu W/cm^2$ level, which will be the level used in this example calculation, is computed according to the gross number of SFM and MFM stations as follows

$$TC2 = \sum_{b=1}^{14} \left[GNS(b)_{sfm,f2} \cdot CNA(b)_{f2} \right] + GNS(16)_{sfm,f2} \cdot CNA(16)_{f2} + \sum_{b=1}^{14} \left[GNS(b)_{mfm,f2} \cdot CNA(b)_{f2} \right] + GNS(16)_{mfm,f2} \cdot CNA(16)_{f2} , \quad \text{(A-1)}$$

where

$TC2$ = total cost of Fix 2,

$GNS(b)_{sfm,f2}$ = gross number of SFM stations requiring an antenna of size b (number of bays) for Fix 2 (Table A-2),

$GNS(b)_{mfm,f2}$ = gross number of MFM stations requiring an antenna of size b for Fix 2 (Table A-4), and

$CNA(b)_{f2}$ = cost of a new antenna of size b for Fix 2 (Table A-1.b).

Refer to Table A-5 for an example of the calculation of Fix 2 medium-level costs for compliance with 100 $\mu W/cm^2$ guidance level. The costs for CNA in Table A-5 are from Table A-1.b. The identical procedure is followed for Fix 3, using the medium-level cost schedule in Table A-1.c for CNA.

$$TC3 = \sum_{b=1}^{14} \left[GNS(b)_{sfm,f3} \cdot CNA(b)_{f3} \right] + GNS(16)_{sfm,f3} \cdot CNA(16)_{f3} + \sum_{b=1}^{14} \left[GNS(b)_{mfm,f3} \cdot CNA_{f3} \right] + GNS(16)_{mfm,f3} \cdot CNA(16)_{f3} , \quad \text{(A-2)}$$

Table A-3. Distribution of compliance measures 4, 5, and 6 among single and multiple FM stations requiring antennas mounted on taller towers.

	Fix 4 Lease on another existing tower	Fix 5 Build taller tower, existing site	Fix 6 Build taller tower, new site	Total of three fixes
	Percentage of stations			
Low-cost analysis	12.5	75.0	12.5	100
Medium-cost analysis	25.0	50.0	25.0	100
High-cost analysis	37.5	25.0	37.5	100

Source: Table 8, Volume 1.

where

TC3 = total cost of Fix 3,

$GNS(b)_{sfm,f3}$ = gross number of SFM stations requiring an antenna of size b (number of bays) for Fix 3 (Table A-1),

$GNS(b)_{mfm,f3}$ = gross number of MFM stations requiring an antenna of size b for Fix 3 (Table A-4), and

$CNA\ (b)_{f3}$ = cost of a new antenna of size b for Fix 3 (Table A-1.c).

Refer to Table A-6 for an example of these computations.

The cost of Fix 4 for SFMs is more straightforward. Fix 4 is the first of three applied to the "unfixable" antennas, all of which involve raising the antenna to reduce the power density on the ground. Fix 4 represents the option to lease space at a higher elevation on another station's tower.

$$TC4 = (GNS_{sfm,u} \cdot F4 \cdot CEQ) + (GNS_{sfm,u} \cdot F4 \cdot CLE) + (GNS_{mfm,u} \cdot F4 \cdot MFM \cdot CEQ) + (GNS_{mfm,u} \cdot F4 \cdot CLE), \quad \text{(A-3)}$$

TABLE A-4. AN ANALYSIS OF THE REQUIREMENTS FOR COMPLIANCE WITH GUIDELINES LIMITING PUBLIC EXPOSURE TO RADIOFREQUENCY RADIATION FROM MULTIPLE, GROUND-MOUNTED FM RADIO STATIONS IS GIVEN FOR 18 POWER DENSITY LEVELS. SOURCE: EPA, ORP, LAS VEGAS, NV.

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1 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	8	Ø	Ø	8
2	48	1Ø	19	19
3	42	2	9	31
4	47	Ø	1Ø	37
5	26	1	1	24
6	53	Ø	6	47
7	1Ø	Ø	4	6
8	39	Ø	13	26
9	4	Ø	4	Ø
1Ø	25	Ø	5	2Ø
11	1	Ø	1	Ø
12	31	Ø	22	9
13	Ø	Ø	Ø	Ø
14	9	Ø	9	Ø
16	5	Ø	4	1
TOTALS	348	13	1Ø7	228

1Ø MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	6	Ø	1	5
2	24	8	11	5
3	35	8	15	12
4	39	7	9	23
5	25	1	1Ø	14
6	51	9	18	24
7	9	2	3	4
8	35	4	2Ø	11
9	3	Ø	3	Ø
1Ø	23	1	13	9
11	1	1	Ø	Ø
12	29	8	19	2
13	Ø	Ø	Ø	Ø
14	4	3	1	Ø
16	3	1	2	Ø
TOTALS	287	53	125	1Ø9

TABLE A-4. CONTINUED

20 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	6	0	2	4
2	18	8	7	3
3	29	7	10	12
4	35	6	8	21
5	24	4	8	12
6	49	10	22	17
7	8	2	2	4
8	26	3	13	10
9	2	0	2	0
10	22	3	13	6
11	1	1	0	0
12	26	12	13	1
13	0	0	0	0
14	3	2	1	0
16	2	0	2	0
TOTALS	251	58	103	90

50 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	5	2	3	0
2	9	5	1	3
3	22	5	9	8
4	31	6	10	15
5	23	7	9	7
6	44	16	21	7
7	7	3	2	2
8	19	5	10	4
9	0	0	0	0
10	18	7	6	5
11	1	1	0	0
12	20	14	6	0
13	0	0	0	0
14	2	2	0	0
16	1	1	0	0
TOTALS	202	74	77	51

TABLE A-4. CONTINUED

75 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	4	1	3	Ø
2	5	1	1	3
3	18	5	8	5
4	27	5	8	14
5	22	6	9	7
6	39	13	2Ø	6
7	6	2	3	1
8	18	4	14	Ø
9	Ø	Ø	Ø	Ø
1Ø	17	7	7	3
11	Ø	Ø	Ø	Ø
12	14	1Ø	4	Ø
13	Ø	Ø	Ø	Ø
14	1	1	Ø	Ø
16	1	1	Ø	Ø
TOTALS	172	56	77	39

1ØØ MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	3	1	2	Ø
2	4	1	3	Ø
3	17	6	11	Ø
4	26	4	16	6
5	22	6	1Ø	6
6	36	1Ø	25	1
7	5	1	3	1
8	17	5	12	Ø
9	Ø	Ø	Ø	Ø
1Ø	16	7	7	2
11	Ø	Ø	Ø	Ø
12	11	7	4	Ø
13	Ø	Ø	Ø	Ø
14	Ø	Ø	Ø	Ø
16	1	1	Ø	Ø
TOTALS	158	49	93	16

TABLE A-4. CONTINUED

200 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	1	1	0	0
2	2	1	1	0
3	13	3	10	0
4	20	3	13	4
5	14	1	10	3
6	27	10	17	0
7	3	1	2	0
8	12	4	8	0
9	0	0	0	0
10	15	8	7	0
11	0	0	0	0
12	7	6	1	0
13	0	0	0	0
14	0	0	0	0
16	1	1	0	0
TOTALS	115	39	69	7

300 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	0	1	0
3	13	3	10	0
4	20	5	15	0
5	13	3	10	0
6	22	9	13	0
7	2	0	2	0
8	10	4	6	0
9	0	0	0	0
10	13	9	4	0
11	0	0	0	0
12	6	5	1	0
13	0	0	0	0
14	0	0	0	0
16	1	1	0	0
TOTALS	101	39	62	0

TABLE A-4. CONTINUED

400 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	0	1	0
3	11	3	8	0
4	20	6	14	0
5	12	3	9	0
6	18	9	9	0
7	2	0	2	0
8	7	2	5	0
9	0	0	0	0
10	12	9	3	0
11	0	0	0	0
12	6	5	1	0
13	0	0	0	0
14	0	0	0	0
16	1	1	0	0
TOTALS	90	38	52	0

500 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	0	1	0
3	11	4	7	0
4	16	5	11	0
5	12	4	8	0
6	16	9	7	0
7	2	0	2	0
8	7	2	5	0
9	0	0	0	0
10	12	9	3	0
11	0	0	0	0
12	6	5	1	0
13	0	0	0	0
14	0	0	0	0
16	1	1	0	0
TOTALS	84	39	45	0

TABLE A-4. CONTINUED

600 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	0	1	0
3	10	5	5	0
4	15	5	10	0
5	12	4	8	0
6	14	8	6	0
7	2	0	2	
8	5	1	4	0
9	0	0	0	0
10	10	8	2	0
11	0	0	0	0
12	4	4	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	73	35	38	0

700 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	1	0	0
3	9	5	4	0
4	12	5	7	0
5	11	4	7	0
6	11	7	4	0
7	2	1	1	0
8	5	1	4	0
9	0	0	0	0
10	8	7	1	0
11	0	0	0	0
12	3	3	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	62	34	28	0

TABLE A-4. CONTINUED

800 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	1	0	0
3	9	6	3	0
4	12	5	7	0
5	11	4	7	0
6	11	7	4	0
7	2	1	1	0
8	4	1	3	0
9	0	0	0	0
10	8	7	1	0
11	0	0	0	0
12	3	3	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	61	35	26	0

900 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	1	0	0
3	7	5	2	0
4	12	5	7	0
5	10	5	5	0
6	11	7	4	0
7	2	1	1	0
8	4	1	3	0
9	0	0	0	0
10	7	6	1	0
11	0	0	0	0
12	3	3	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	57	34	23	0

TABLE A-4. CONTINUED

1000 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	1	0	0
3	6	5	1	0
4	12	6	6	0
5	10	5	5	0
6	10	7	3	0
7	2	1	1	0
8	3	2	1	0
9	0	0	0	0
10	6	5	1	0
11	0	0	0	0
12	3	3	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	53	35	18	0

2000 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	1	1	0	0
3	1	1	0	0
4	5	2	3	0
5	6	5	1	0
6	6	5	1	0
7	2	1	1	0
8	3	3	0	0
9	0	0	0	0
10	2	2	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	26	20	6	0

TABLE A-4. CONTINUED

5000 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	2	2	0	0
5	2	2	0	0
6	1	1	0	0
7	1	1	0	0
8	2	2	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	8	8	0	0

10000 MICROWATTS PER SQ. CM

# BAYS	# STATIONS >PPD	ANTENNA FIX	1/2 WAVE FIX	UNFIXABLE
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14	0	0	0	0
16	0	0	0	0
TOTALS	0	0	0	0

Table A-5. A sample calculation is given of the cost of Fix 2 for all FM radio stations that can use this measure to comply with guidelines limiting public exposure to radiofrequency radiation (the 100 microwatts per sq. cm guidance and medium-cost level are assumed).[a]

Number	Single FM Stations[b]			Multiple FM Stations[c]		
of Bays[d]	GNS[e]	CNA[f]	Cost[g]	GNS[e]	CNA[f]	Cost[g]
1	1	$4,690	$4,690	1	$4,690	$4,690
2	13	8,300	107,900	1	8,300	8,300
3	38	12,200	463,600	6	12,200	73,200
4	55	16,200	891,000	4	16,200	64,800
5	38	21,100	801,800	6	21,100	126,600
6	113	24,300	2,745,900	10	24,300	243,000
7	19	28,300	537,700	1	28,300	28,300
8	63	32,700	2,060,100	5	32,700	163,500
9	4	36,900	147,600	0	36,900	
10	102	41,000	4,182,000	7	41,000	287,000
11	16	44,700	715,200	0	44,700	
12	143	50,000	7,150,000	7	50,000	350,000
13	1	54,200	54,200	0	54,200	
14	5	59,300	296,500	0	59,300	
16	0	67,700		1	67,700	67,700
	611		$20,158,190	49		$1,417,090

[a] Fix 2 is to replace the existing antenna with a new model having a broadcast pattern that delivers little of its signal to the ground near the antenna.

[b] Stations whose antennas are mounted alone on a ground-mounted tower.

[c] Stations whose antennas are co-mounted on the same ground-mounted tower or on towers within 100 ft of another tower.

[d] The size and signal amplification capabilities of the antenna expressed in number of elements or bays.

[e] The number of SFM or MFM stations with the given size of antenna (refer to Tables A-2 and A-4).

[f] The cost of a new antenna of the given size (refer to Table A-1.b).

[g] Number of stations times the cost of the antenna.

Table A-6. A sample calculation is given of the cost of Fix 3 for all FM radio stations that must use this measure to comply with guidelines limiting public exposure to radiofrequency radiation (the 100 microwatts per sq. cm guidance and medium-cost level are assumed).[a]

Number of Bays[d]	Single FM Stations[b] GNS[e]	CNA[f]	Cost[g]	Multiple FM Stations[c] GNS[e]	CNA[f]	Cost[g]
1	4	$4,690	$18,760	2	$4,690	$9,380
2	22	14,110	310,420	3	14,110	42,330
3	17	21,960	373,320	11	21,960	241,560
4	24	30,375	729,000	16	30,375	486,000
5	30	39,550	1,186,500	10	39,550	395,500
6	58	45,575	2,643,350	25	45,575	1,139,375
7	11	53,075	583,825	3	53,075	159,225
8	26	61,325	1,594,450	12	61,325	735,900
9	3	69,200	207,600	0	69,200	
10	43	76,875	3,305,625	7	76,875	538,125
11	0	83,825		0	83,825	
12	16	93,750	1,500,000	4	93,750	375,000
13	0	101,625		0	101,625	
14	1	111,200	111,200	0	111,200	
16	0	126,950		0	126,950	
	255		$12,564,050	93		$4,122,395

[a] Fix 3 is to replace the existing antenna with a new half-wave model having a broadcast pattern that delivers little of its signal to the ground near the antenna.

[b] Stations whose antennas are mounted alone on a ground-mounted tower.

[c] Stations whose antennas are co-mounted on the same ground-mounted tower or on towers within 100 ft of another tower.

[d] The size and signal amplification capabilities of the antenna expressed in number of elements or bays.

[e] The number of SFM or MFM stations with the given size of antenna (refer to Tables A-2 and A-4).

[f] The cost of a new antenna of the given size (refer to Table A-1.c).

[g] Number of stations times the cost of the antenna.

where

$TC4$ = total cost of Fix 4,

$GNS_{sfm,u}$ = the gross number of SFM stations that cannot use Fix 2 or Fix 3 to comply (Table A-2),

$GNS_{mfm,u}$ = the gross number of MFM stations that cannot use Fix 2 or Fix 3 to comply (Table A-4),

$F4$ = the distribution factor for Fix 4 at the medium cost level (Table A-3),

CEQ = the cost of equipment for Fix 4 (Table A-1.d),

CLE = the present value of the lease cost (Table A-1.d), and

MFM = a factor reflecting the assumption that one third of the MFM stations will share an antenna with at least one other station $(1-(1/3 \cdot 1/2) = 0.83)$.

Refer to Table A-7 for an example of these computations for the 100 $\mu W/cm^2$ level.

Fix 5 involves building a taller, replacement tower on the same site as the existing tower. To estimate the cost of this measure, it is necessary to refer to two tables. Table A-8 gives the number of SFM stations for which a taller tower of the height specified in column 1 is required with a new half-wavelength antenna to reduce power density to the levels specified across the column entries. Table A-9 gives the same information for MFM stations. The row of totals shows the number of unfixable stations at each power density level (see Table A-2 for SFM and Table A-4 for MFM stations). At the 100 $\mu W/cm^2$ level, for instance, one station requires a 50-ft tower, the cost of which is given in Table A-1.e.

The cost of Fix 5 is calculated according to

$$TC5 = \sum_{h=1}^{12} \left[(GNS(h)_{sfm,f5} \cdot CNT(h)_{f5} \cdot F5 \right] + \sum_{h=1}^{12} \left[GNS(h)_{mfm,f5} \cdot CNT(h)_{f5} \cdot F5 \cdot MFM \right], \quad \text{(A-4)}$$

where

$TC5$ = total cost of Fix 5,

$GNS(h)_{sfm,f5}$ = the gross number of SFM stations requiring a tower of one of 12 heights, h, using Fix 5 (Table A-8),

$GNS(h)_{mfm,f5}$ = the gross number of MFM stations requiring a tower of one of 12 heights, h, using Fix 5 (Table A-8),

$CNT(h)_{f5}$ = cost of a new tower of one of 12 heights, h (Table A-1.e),

Table A-7. A sample calculation is given of the cost of Fix 4 for all FM radio stations that must use this measure to comply with guidelines limiting public exposure to radiofrequency radiation (the 100 microwatts per sq. cm guidance and medium-cost level are assumed).[a]

	Single FM Stations[b]		Multiple FM Stations[c]	
	Equipment	Lease	Equipment	Lease
GNS[d]	12	12	16	16
Fix 4 factor[e]	0.25	0.25	0.25	0.25
NNS[f]	3	3	4	4
Unit cost[g]	$23,000	$59,500	$23,000	$59,500
MFM Factor[h]	--	--	0.83	1.00
Cost[i]	$69,000	$178,500	$76,360	$238,000

[a] Fix 4 is to obtain a higher antenna location by leasing space on another station's tower.

[b] Stations whose antennas are mounted alone on a ground-mounted tower.

[c] Stations whose antennas are comounted on the same ground-mounted tower.

[d] The gross number of SFM or MFM stations using Fix 4, 5, or 6 (refer to Table A-2 and A-4).

[e] Refer to Table A-3.

[f] GNS times Fix 4 factor to obtain the net number of stations.

[g] Annual lease cost discounted at 10% for 50 years; refer to Table A-1.d.

[h] One third of the MFM stations are assumed to share an antenna with one other station; therefore, the cost is reduced by the factor (1-(1/2*1/3)).

[i] The number of stations times the unit cost times the MFM factor.

Table A-8. The number of SFM stations is shown that require higher towers to meet the seven power density levels for which this compliance measure is necessary (Source: EPA, ORP, Las Vegas, NV).

Tower height required	Power density level, $\mu W/cm^2$						
	1	10	20	50	75	100	200
ft	Number of stations						
50			1	1	1	1	
75			7	4	6	1	1
100			14	14	8	7	1
125			21	8	5	2	
150			26	2		1	
175		182	11		1		
200			5	1	1		
250			4	1			
300			2				
350							
400							
500	922						
TOTALS	922	182	91	31	22	12	2

$GNS(h)_{mfm,f5}$ = the gross number of MFM stations requiring a tower of one of 12 heights, h, using Fix 5 (Table A-8),

$CNT(h)_{f5}$ = cost of a new tower of one of 12 heights, h (Table A-1.e),

F5 = the distribution factor for Fix 5 at the medium cost level (Table A-3), and

MFM = a factor reflecting the assumption that one third of the MFM stations will share an antenna and tower with at least one other station (1-(1/2• 1/3) = 0.83).

Refer to Table A-10 for an example of these calculations for Fix 5 for SFMs and MFMS.

Table A-9. The number of MFM stations is shown that require higher towers to meet the seven power density levels for which this compliance measure is necessary (Source: EPA, ORP, Las Vegas, NV).

Tower height required	Power density level, $\mu W/cm^2$						
	1	10	20	50	75	100	200
ft	Number of stations						
50							
75							
100				3	6	3	3
125			5	3	4	7	
150			17	13	14	3	4
175		109	11	13	4		
200			5	7	7	3	
250			22	3	4		
300			11	9			
350			8				
400			11				
500	228	—	—	—	—	—	—
TOTALS	228	109	90	51	39	16	7

Fix 6 involves building a taller, replacement tower on a new site; therefore, the costs for this measure, Table A-1.f, are higher than for Fix 5. The data describing tower height required for SFMs for Fix 6 are the same as for Fix 5 and are given in Table A-8. Required tower height data for MFMs are given in Table A-9. The cost of Fix 6 is calculated using a formula similar to that for Fix 5.

$$TC6 = \sum_{h=1}^{8} \left[GNS(h)_{sfm,f6} \cdot CNT\,(h)_{f6} \cdot F6\right] + \sum_{h=1}^{8} \left[GNS(h)_{mfm,f6} \cdot CNT\,(h)_{f6} \cdot F6 \cdot MFM\right], \quad \text{(A-5)}$$

where

TC6 = total cost of Fix 6 ,

$GNS\,(h)_{sfm,f6}$ = the gross number of SFM stations that require a tower of one of eight heights, h, using Fix 6 (Table A-9),

Table A-10. A sample calculation is given of the cost of Fix 5 for all FM radio stations that must use this measure to comply with guidelines limiting public exposure to radiofrequency radiation (the 100 microwatts per sq. cm guidance and medium-cost level are assumed).[a]

Single FM stations[b]					Multiple FM stations[c]				
Tower height required (less than) ft	GNS[d]	Fix 5 factor[e]	Cost of tower @ given height[f]	SFM total[g]	Tower height required (less than) ft	GNS[d]	Fix 5 factor[e]	Cost of tower @ given height[f]	MFM total[g]
50	1	0.50	$24,500	$12,250	50		0.50	$24,500	
75	1	0.50	26,800	13,400	75		0.50	26,800	
100	7	0.50	29,200	102,200	100	3	0.50	29,200	$43,800
125	2	0.50	32,600	32,600	125	7	0.50	32,600	114,100
150	1	0.50	36,000	18,000	150	3	0.50	36,000	54,000
175		0.50	39,200		175		0.50	39,200	
200		0.50	42,800		200	3	0.50	42,800	64,200
250		0.50	48,700		250		0.50	48,700	
300		0.50	56,900		300		0.50	56,900	
350		0.50	72,600		350		0.50	72,600	
400		0.50	83,400		400		0.50	83,400	
500		0.50	105,900		500		0.50	105,900	
	12			$178,450		16			$276,100
							MFM factor[h]		0.83
							Net cost		$229,163

[a] Fix 5 is to build a new antenna on the existing site to raise the antenna.

[b] Stations whose antennas are mounted alone on a ground-mounted tower.

[c] Stations whose antennas are comounted on the same ground-mounted tower.

[d] The gross number of SFM or MFM stations using Fix 5 (refer to Table A-8 and A-9).

[e] Refer to Table A-3.

[f] Refer to Table A-1.e for unit costs.

[g] The gross number of stations times the Fix 5 factor times the unit cost.

[h] One third of the MFM stations are assumed to share an antenna with one other station; therefore, the cost is reduced by the factor (1-(1/2*1/3)).

$GNS(h)_{mfm,f6}$ = the gross number of MFM stations that require a tower of one of eight heights, h, using Fix 6 (Table A-9),

$CNT(h)_{f6}$ = cost of a new tower of one of 12 heights, h (Table A-1.f),

F6 = the distribution factor for Fix 6 at the medium cost level (Table A-3), and

MFM = a factor reflecting the assumption that one third of the MFM stations will share an antenna and tower with at least one other station (1-(1/2• 1/3) = 0.83).

Refer to Table A-11 for an example of these calculations for Fix 6 for SFMs and MFMs. The costs for each of the compliance measures for the 100 $\mu W/cm^2$ guidance at the medium-cost level are presented in Table A-12. The costs are adjusted by the factor 1.123 because there are 4374 FM stations, but the EPA data base contains data on only 3895 of these (4374/3895 = 1.123). The cost of any guidance level studied can be computed at any of the three cost levels by using the cost data presented in these tables and using the procedure described in this appendix.

SOCIAL COSTS

The cost to society-at-large includes the cost of carrying out a survey at all 4,374 stations and the cost of installing one of five compliance measures at those stations that do not comply with the standard. Table A-12 shows the costs for the various fixes and Table A-13 shows the total cost to society-at-large.

The cost to society is computed using the following

$$TCC = TC1+TC2+TC3+TC4E+TC4L+TC5+TC6. \quad \text{(A-6)}$$

$$TCS = 4374\ (\$2{,}000) = \$8.748 \text{ million}. \quad \text{(A-7)}$$

$$TGC = TCC+TCS. \quad \text{(A-8)}$$

$$ACF = TGC/5. \quad \text{(A-9)}$$

$$PV = \sum_{k=1}^{5} ACF/1.1^{k-1}, \quad \text{(A-10)}$$

where

TCC = total cost of compliance measures;

Table A-11. A sample calculation is given of the cost of Fix 6 for all FM radio stations that must use this measure to comply with guidelines limiting public exposure to radiofrequency radiation for the 100 microwatts per sq. cm guidance at the medium-cost level.[a]

Single FM stations[b]					Multiple FM stations[c]				
Tower height required (less than) ft	GNS[d]	Fix 6 factor[e]	Cost of tower @ given height[f]	SFM total[g]	Tower height required (less than) ft	GNS[d]	Fix 6 factor[e]	Cost of tower @ given height[f]	MFM total[g]
100	9	0.25	$117,500	$264,375	100	3	0.25	$117,500	$88,125
150	3	0.25	120,750	90,563	150	10	0.25	120,750	301,875
200		0.25	124,500		200	3	0.25	124,500	93,375
250		0.25	128,250		250		0.25	128,250	
300		0.25	132,000		300		0.25	132,000	
350		0.25	140,000		350		0.25	140,000	
400		0.25	151,000		400		0.25	151,000	
500		0.25	180,000		500		0.25	180,000	
	12			$354,938		16			$483,375
					MFM factor[h]				0.83
					Net cost			$401,201	

[a] Fix 6 is to build a new antenna on a new site to raise the antenna.

[b] Stations whose antennas are mounted alone on a ground-mounted tower.

[c] Stations whose antennas are comounted on the same ground-mounted tower.

[d] The gross number of SFM or MFM stations using Fix 6 (refer to Tables A-8 and A-9).

[e] Refer to Table A-3.

[f] Refer to Table A-1.f for unit costs.

[g] The gross number of stations times the Fix 6 factor times the unit cost.

[h] One third of the MFM stations are assumed to share an antenna with one other station; therefore, the cost is reduced by the factor (1-(1/2*1/3)).

Table A-12. The total cost by fix to FM radio broadcast stations complying with guidelines limiting public exposure to radiofrequency radiation is summarized for the 100 microwatts per sq. cm guidance at the medium-cost level.

Fix	Fix 1	Fix 2	Fix 3	Fix 4	Fix 5	Fix 6	Total
SFM	0	$20,158,190	$12,564,050	$247,500	$178,450	$354,938	$33,503,128
MFM	0	1,417,090	4,122,395	314,360	229,163	401,201	6,484,209
Total	0	21,575,280	16,686,445	561,860	407,613	756,139	39,987,337
Adjusted total[a]	0	$24,229,039	$18,738,878	$630,969	$457,749	$849,144	$44,905,779

[a] Values from Tables A-5, A-6, A-7, A-10, and A-11 adjusted by the ratio of the number of actual FM stations to the number of stations in the EPA data base, (4374/3895) = 1.123.

Table A-13. A sample calculation of the potential cost to the society-at-large of guidelines limiting public exposure to radiofrequency radiation from FM radio broadcast sources is given for the 100 microwatts per sq. cm guidance at the medium-cost level.

Total cost of compliance measures (TCC)[a]	$44,905,779
Total cost of a survey (TCS)	88,748,000
Total gross cost of compliance	$53,653,779
Annual cash flow cost (ACF)	$10,730,756
Present value (PV)	$44,745,808

[a] From Table A-12

TC1,TC2,TC3,TC4E,TC4L,TC5, and TC6 are the total costs of the respective fixes. Fix 4 has an equipment (TC4E) and a lease (TC4L) component. For the medium unit cost of Fix 4, TC4L = $59,500 and TC4E = $23,000 (Table A-1.d). The lease cost, TC4L, is the present value of the annual lease cost, $6,000, discounted at 10% for 50 years;

TCS = total cost of the survey;

TGC = total gross cost of compliance;

ACF = annual cash flow cost;

PV = present value of the cost of compliance; and

K = Year index, 1 to 5.

COST TO INDUSTRY

The cost to the FM broadcast industry of a guideline limiting public exposure to radiofrequency radiation includes the survey cost as well as the capital and finance costs of the compliance measures. This section illustrates how the annual, total, and average cash flow cost and the present value of the net after tax cost are computed for the 100 $\mu W/cm^2$ guidance level. It is assumed that compliance costs are spread evenly among five cohorts of stations and that loan amortization and interest payments continue for five years after initial installation of the compliance measure. The data requirements for this calculation are:

Total cost of survey, TCS	$8,748,000
Total cost, Fix 2, TC2	$24,229,039
Total cost, Fix 3, TC3	$18,738,878
Total cost, Fix 4 - equipment, TC4E	$163,239
Annualized cost, Fix 4 - lease, AC4L	$107,391
Total cost, Fix 5, TC5	$457,749
Total cost, Fix 6, TC6	$849,144
Tangible property (TC2+TC3+TC4E+TC5+TC6), TP	$44,438,050
Expensed costs, year 0 (AC4L+TCS), EX (0)	$8,855,391
Expensed costs, years 1-5 (AC4L), EX (k)	$107,391
Total number of stations fixed (Table D-4, Vol. 2)	1,163
Loan amount (75% of tangible property), TLP	$33,328,537
Down payment (25% of tangible property), DP	$11,109,512
Annual principal payment (loan amount ÷ 5), AM (k)	$6,665,707

Investment tax credit (10% of tangible property), ITC	$4,443,805
Effective tax rate	0.46
Interest rate	0.10
Repayment period	5 yrs

Depreciation schedule (fraction of tangible property)

Year 1	0.15 (TP) = DPN(1)
Year 2	0.22(TP) = DPN(2)
Year 3	0.21(TP) = DPN(3)
Year 4	0.21(TP) = DPN(4)
Year 5	0.21(TP) = DPN(5)

The lease costs shown in Table A-1.d are the present value of annual lease costs ($3,000, $6,000, and $9,000 for low, medium, and high cost, respectively) discounted over 50 years at 10%. However, for the industry and average firm analyses, the present value of the lease cost is annualized over the six years of assumed compliance expenditure as follows:

$$AC4L = TC4L\left[\frac{i(1+i)^k}{(1+i)^k-1}\right], \qquad \text{(A-11)}$$

where

AC4L = the annualized cost of the lease,

TC4L = the present value of the lease, and

k = the year counter, 1 to 6.

For i = 0.10 and k = 6, AC4L = 0.2296 (TC4L). Therefore, the value used in the industry analysis for Fix 4 is calculated from the values for Fix 4 - lease (Table A-7) for SFM + MFM as follows

AC4L = (($178,500 + $238,000) 0.2296) 1.123 = $107,391.

The calculation of the cost of compliance to the FM broadcast industry considers the gross cash flow cost, tax shelter effect, the net cash flow cost that results from expenses, down payment, loan amortization, interest payments, depreciation, and investment tax credit. The interest is assumed to be paid on the loan balance at the end of each year. The only non-depreciable expenses considered are that of the survey and the lease portion of Fix 4. The tax effect of expenses, interest, and depreciation is determined by multiplying each of these factors by the effective tax rate. The

investment tax credit is based on the value of the tangible property in the first year, which is represented as k equal to zero, where k is the year index. The yearly gross cash flow cost for each cohort is determined as follows:

$$GCF(k) = DP(0) + TCS(0) + AC4L, \text{ for } k = 0, \text{ and} \quad \text{(A-12)}$$
$$GCF(k) = AM(k) + IN(k) + AC4L, \text{ for } k = 1,5,$$

where

GCF(k) = gross cash flow cost,
DP(0) = down payment,
TCS(0) = total cost of survey,
AC4L = annualized lease,
AM(k) = loan amortization,
IN(k) = interest payment, and
k = year index, 0 = year of compliance; 1-5 = continued compliance expenses.

The yearly tax shelter effect is given by

$$TS(k) = TREX(0) + ITC(0), \text{ for } k = 0, \text{ or} \quad \text{(A-13)}$$
$$TS(k) = TRIN(k) + TREX(k) + TRDPN(k), \text{ for } k = 1,5,$$

where

TS(k) = tax shelter in year k,
TREX = 0.46 • EX(k),
ITC = investment tax credit,
TRIN = 0.46 • IN(k),
TRDPN = 0.46 • DPN(k), and
k = year index, 0 to 5.

The net cash flow cost for the FM broadcast industry in year k, NCF(k), is the difference between the gross cash flow cost GCF(k) and the tax shelter TS(k) and is given by

$$NCF(k) = GCF(k) - TS(k) . \quad \text{(A-14)}$$

Table A-14 shows how costs are calculated for a cohort of FM broadcast stations using the variables discussed above for compliance with the 100 $\mu W/cm^2$ guideline. The values in the last row of Table A-14 are shown for each cohort in Table A-15. The additional values shown in Tables A-14 and A-15 are computed as follows:

Table A-14. A sample calculation of the potential cost to the FM broadcast industry of guidelines limiting public exposure to radiofrequency radiation is given for the 100 microwatts per sq. cm guidance at the medium cost level. The cost to a cohort of complying stations is presented.

	Year					
	0	1	2	3	4	5
Parameter	Industry costs					
EX	$8.855	$0.107	$0.107	$0.107	$0.107	$0.107
DP	11.110					
AM		6.666	6.666	6.666	6.666	6.666
IN		3.333	2.666	2.000	1.333	0.667
GCF	19.965	10.106	9.439	8.773	8.106	7.440
ITC	4.444					
TREX	4.073	0.049	0.049	0.049	0.049	0.049
TRIN		1.533	1.226	0.920	0.613	0.307
TRDPN		3.066	4.497	4.293	4.293	4.293
TS	8.517	4.649	5.773	5.262	4.955	4.649
NCF	$11.448	$5.457	$3.666	$3.511	$3.151	$2.791
	Cohort costs					
CNCF	$2.290	$1.091	$0.733	$0.702	$0.630	$0.558

Table A-15. A sample calculation of the potential cost to the FM broadcast industry of guidelines limiting public exposure to radiofrequency radiation is given for the 100 microwatts per sq. cm guidance at the medium cost level. The yearly net cash flow costs, average cash flow costs, and present value are calculated.

	Year									
	1	2	3	4	5	6	7	8	9	10
Cohort	Cohort costs									
CNCF 1	$2.290	$1.091	$0.733	$0.702	$0.630	$0.558				
CNCF 2		2.290	1.091	0.733	0.702	0.630	0.558			
CNCF 3			2.290	1.091	0.733	0.702	0.630	0.558		
CNCF 4				2.290	1.091	0.733	0.702	0.630	0.558	
CNCF 5					2.290	1.091	0.733	0.702	0.630	0.558
TNCF	$2.290	$3.381	$4.114	$4.816	$5.447	$3.715	$2.624	$1.891	$1.188	$0.558
ANCF	$3.002									
PV	$21.651									

$$CNCF(k) = NCF(k)/5\,, \qquad \text{(A-15)}$$

where

CNCF(k) = the cohort net cash flow cost in year k, and
NCF(k) = the industry net cash flow cost in year k.

The six years of cohort costs CNCF(k) for five cohorts are spread over a total of 10 years as shown in Table A-15. The total cost for each year, TNCF(k), is the sum of the individual CNCF(k)s for a given year; because the five cohorts' expenses occur over six years and cohort compliance is staggered over five years, the costs to industry are spread over a 10 year period. See Table A-15.

$$ANCF = \sum_{k=1}^{10} TNCF(k)\ /10\,. \qquad \text{(A-16)}$$

$$PV = \sum_{k=1}^{10} TNCF(k)/1.1^{k-1}\,, \qquad \text{(A-17)}$$

where

ANCF(k) = the average annual industry net cash flow cost in year k,
TNCF(k) = the total net cash flow cost for all five cohorts, and
PV = present value of the cost to industry.

EFFECTS ON THE AVERAGE PROFITABLE BROADCAST STATION

In this section, a sample calculation is presented of the cost of the 100 $\mu W/cm^2$ guideline to the average profitable FM station. The objective is to determine the net annual cost of compliance over a six year period. From this, the present value of the net cost of compliance is determined. It is assumed that the average profitable FM station has a yearly gross income of $139,400 throughout the period of analysis (refer to Volume 1).

The average station gross cash flow cost of compliance is given by the expression

$$AGCF(k) = ACS(k) + ADP(k) + AC4L, \text{ for } k = 0, \text{ or} \qquad \text{(A-18)}$$
$$AGCF(k) = AIN(k) + AAC4L + AAM(k), \text{ for } k = 1 \text{ to } 5$$

where

AGCF(k) = average gross cash flow cost in year k,
ACS(k) = cost of survey per station,
ADP(k) = average cost of the down payment per station,
AIN(k) = average interest cost in time period k per station,
AAM(k) = average amortization cost per station in year k,
ACL4 = average annualized cost of the lease portion of Fix 4, and
k = year index, 0 to 5.

The average down payment, interest, and amortization cost in each time period are obtained by using the corresponding values for the entire industry from Table A-14 to make calculations according to the following

$$AEX(0) = (AC4L/TNSF)+(TCS(0)/TNS), \text{ for } k = 0, \text{ or} \quad (A-19)$$
$$AEX(k) = AC4L/TNSF, \text{ for } k = 1 \text{ to } 5,$$

where

AEX = average broadcast station expensed costs;
TNSF = total number of stations requiring a compliance measure, 1163; the number of stations shown in Table D-4 and in Table 15 may differ slightly from this as a result of roundoff error;
TNS = total number of FM stations, 4374; and
k = the year index, 0 to 5.

The effect of averaging the costs in this manner is to create a weighted average cost over all compliance measures for the average firm. These calculations are summarized in Table A-16. Table A-17 presents a pro forma generalized income statement for the average FM station. The variables used in this table are discussed below.

The average taxable operating income is given by

$$ATOI(0) = AOIA(0) + ADP(0), \text{ for } k = 0, \text{ or} \quad (A-20)$$
$$ATOI(k) = AOIA(k) + AAM(k) - ADPN(k), \text{ for } k = 1 \text{ to } 5,$$

where

ATOI(k) = average taxable operating income in year k,
AOIA(k) = average operating income after compliance in year k,

Table A-16. A sample calculation of the effects on the average FM radio station of guidelines limiting public exposure to radiofrequency radiation is given for the 100 microwatts per sq. cm guidance at the medium cost level. The calculation of the average costs and tax deductions and credits is presented.

	Year					
	0	1	2	3	4	5
Parameter			Costs			
AEX[a]	$2,092	$92	$92	$92	$92	$92
ADP[b]	9,549					
AAM[b]		5,729	5,729	5,729	5,729	5,729
AIN[b]		2,865	2,292	1,719	1,146	573
AGCF[b]	11,641	8,686	8,113	7,540	6,968	6,395
AITC[b]	3,820					
ADPN		5,729	8,403	8,021	8,021	8,021

[a] AEX, year 1 = (AC41/TNSF)+(TCS/TNS); AEX, year 2-6 = AC4L/TNSF

[b] The total value divided by TNSF

Table A-17. A sample calculation of the effects on the average FM radio station of guidelines limiting public exposure to radiofrequency radiation is given for the 100 microwatts per sq. cm guidance at the medium cost level. The net cost and effect on the net profit of the firm are presented.

Parameter	Year prior to guideline	Years of compliance expense: 0	1	2	3	4	5
		Costs					
AOIB[a]	$139,400	$139,400	$139,400	$139,400	$139,400	$139,400	$139,400
AGCF[b]		-11,641	-8,686	-8,113	-7,540	-6,967	-6,394
AOIA[c]	139,400	127,759	130,714	131,287	131,860	132,432	133,005
AAM or ADP[b]		+9,549	+5,729	+5,729	+5,729	+5,729	+5,729
ADPN[b]			-5,729	-8,403	-8,021	-8,021	-8,021
ATOI	139,400	137,308	130,714	128,613	129,568	130,141	130,714
AGT		-42,912					
AITC[b]		+3,820					
ANT	-43,874	-39,092	-39,878	-39,912	-39,351	-39,615	-39,878
ANI	$95,526	$88,667	$90,835	$92,375	$92,508	$92,818	$93,127
		Net annual cost of compliance					
AGC		11,641	8,686	8,113	7,540	6,968	6,395
ATSA		-4,782	-3,996	-4,962	-4,523	-4,259	-3,996
NCC		$6,859	$4,691	$3,151	$3,018	$2,708	$2,399
ANCC	$3,804						
		Present value					
	Average	Cohort 1	Cohort 2	Cohort 3	Cohort 4	Cohort 5	
PV	$16,124	$19,334	$17,577	$15,979	$14,526	$13,206	

[a] Average operating income before taxes and compliance expenditures

[b] Refer to Table A-16

[c] Average operating income before taxes and after compliance expenditures

ADP(0) = average down payment in year 0,
AAM(k) = average amortization in year k,
ADPN(k) = average depreciation in year k, and
k = year index, 0 to 5.

In order to calculate tax savings, the following corporate tax rates are applied

Income tax bracket ATOI		Tax rate
Minimum	Maximum	
$0	$25,000	$TR_1 = 0.15$
$25,001	$50,000	$TR_2 = 0.18$
$50,001	$75,000	$TR_3 = 0.30$
$75,001	$100,000	$TR_4 = 0.40$
$100,001	No maximum	$TR_5 = 0.46$

The average gross tax is given by

Taxable income bracket	Tax formula	
for $ATOI(k) > \$100,000$	$AGT(k) = \$25,000\,(TR_1+TR_2+TR_3+TR_4) + TR_5\,(ATOI(k) - \$100,000)$,	(A-21)
for $\$75,000 < ATOI(k) \leq \$100,000$	$AGT(k) = \$25,000\,(TR_1+TR_2+TR_3) + TR_4\,(ATOI(k) - \$75,000)$,	(A-22)
for $\$50,000 < ATOI(k) \leq \$75,000$	$AGT(k) = \$25,000\,(TR_1+TR_2) + TR_3\,(ATOI(k) - \$50,000)$,	(A-23)
for $\$25,000 < ATOI(k) \leq \$50,000$	$AGT(k) = \$25,000(TR_1) + TR_2\,(ATOI(k) - \$25,000)$, and	(A-24)
for $ATOI(k) \leq \$25,000$	$AGT(k) = ATOI(k)\,TR_1$,	(A-25)

where
AGT(k) = average gross tax in year k,
ATOI(k) = average taxable operating in year k, and
TR_j = tax rate for income bracket j.

The average gross tax is given in Table A-17 for each time period. The net tax, ANT(k), also given in A-17, is obtained by subtracting the average station investment tax credit from the gross tax in year 0.

The average net operating income after tax, ANIA(k), in year k is given by

$$ANIA(k) = AOIA(k) - ANT(k), \text{ for } k = 0 \text{ to } 5 \qquad \text{(A-26)}$$

where

AOIA(k) = average income after compliance and before taxes in year k, and
ANT(k) = average net tax in year k.

The average tax savings in year k, ATSA(k), is given by

$$ATSA(k) = ANTB - ANT(k) \qquad \text{(A-27)}$$

where

ANTB = average net tax in the year prior to guideline, and
ANT(k) = average net tax in year k.

The annual net cost of compliance, NCC(k), in year k is

$$NCC(k) = AGCF(k) - ATSA(k)\ , \qquad \text{(A-28)}$$

where

AGCF(k) = the average gross cash flow cost of compliance in year k, and
ATSA(k) = the average tax savings in year k.

The average annual net cost, ANCC, is calculated as follows

$$ANCC = \sum_{k=1}^{6} NCC(k)/6\ . \qquad \text{(A-29)}$$

The present value, PV, is obtained from the expression

$$PV = \sum_{k=1}^{5} NCC(k)/1.1^{k-1}\ , \qquad \text{(A-30)}$$

where

PV = present value, and

NCC(k) = annual net cost of compliance in year k.

However, this is the present value of the cost of compliance for a firm in the first cohort only. For a firm in the c^{th} cohort, the present value is given by the expression

$$PV(c) = \sum_{k=1}^{5} NCC(k)/(1.1)^{k-2+c} \qquad \text{(A-31)}$$

where

PV(c) = the present value of the cost of compliance for a firm in the c^{th} cohort, and

NCC(k) = the annual net cost of compliance for the average firm.

The average present value, APV, is obtained by calculating the mean of the cohort present values

$$APV = \sum_{c=1}^{5} PV(c) \ /5 . \qquad \text{(A-32)}$$

APPENDIX B
ECONOMIC METHODOLOGY: SAMPLE COMPUTATIONS AND ENGINEERING DATA FOR AM RADIO STATIONS

The object of this appendix is to present a detailed sample calculation of the total social, industry, and average AM radio broadcast station cost of complying with guidelines limiting public exposure to radiofrequency radiation. In Volume 1, the cost analysis is presented for eighteen field strength guidance levels at three cost levels. For the sample calculation, guidance level 6, 100 V/m, at the medium cost level is selected. The cost to society-at-large of the 100 V/m standard is expressed in terms of the total gross cost, the annual cash flow cost, and the present value. The cost to industry is expressed in terms of annual net cash flow cost over a period of ten years, the average cost over the 10-year period, and the present value of the 10-year cost stream. The cost to the average firm is presented in terms of the annual net cash flow cost, the average cost, and the average present value for the average profitable station.

REQUIRED DATA AND DEFINITIONS

AM radio stations can limit public exposure to radiofrequency radiation by restricting public access to broadcast towers. Table B-1 shows the radial distances from towers that the public would have to be excluded by fencing to meet the 18 guidance levels and the numbers of stations that would attain compliance by restricting access at the different distances. The distribution of stations requiring exclusion of the public at various distances for standard level 6 is given in column six of Table B-1. Other data and assumptions used in the sample computation are:

- Medium cost of fence — $9/ft
- Medium cost of gate — $600
- Medium cost of survey to determine compliance — $2000
- Total number of AM stations — 4622
- Fraction of stations assumed already fenced — 1/3
- Discount rate — 0.10
- Stations are assumed to comply in five groups, one group a year for five years.
- For the industry and average firm analysis, one year of initial expenses, ordering and installing equipment, is assumed to be followed by five years of loan payments.

Table B-1. The distribution of AM radio stations is shown for radial distances that the signal strength exceeds one of 18 possible guidance levels. Stations whose signal exceeds a guidance level within 2 m of the tower are assumed to be in compliance because the base of most AM towers is already fenced. The power densities (in V/m) for the compliance levels are in parentheses. When no stations were included for an exclusion distance, the entry was left blank.

Distances, m		Compliance level																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		(10)	(366)	(447)	(70.8)	(86.6)	(100.0)	(141.3)	(173.2)	(200.0)	(223.9)	(244.9)	(264.6)	(281.8)	(300.0)	(316.2)	(446.7)	(708.0)	(1000.0)
< D ≤		Number of stations requiring exclusion of the public to the given distance from the antenna																	
0	2			1	76	129	431	909	1222	1241	2933	2960	3070	3075	3076	3098	3202	4251	4447
2	6																		
6	10		109	846	2680	2949	2673	2372	2947	2988	1440	1454	1362	1374	1375	1354	1305	368	173
10	14		1093	1932	533	834	1125	1087	299	259	135	135	119	166	164	167	112	2	2
14	18	70	1799	591	962	448	194	140	84	131	111	70	68	4	5	1	2	1	
18	22	85	248	261	138	105	79	58	67	1	2	2	2	2	1	1	1		
22	26	473	204	625	95	91	54	54	2	1		1	1	1	1	1			
26	30	382	684	130	59		48	1		1	1								
30	34	293	135	130	13	63	16	1	1										
34	38	1150	50	11	11	1	1												
38	42	446	142	6	53	1	1												
42	46	219	54	1	1	1													
46	50	43	5	22															
50	54	52	1	11	1														
54	58	65	8	38															
58	62	57	2	16															
62	66	7	1																
66	70	125	19																
70	74	508	34	1															
74	78	177	18																
78	82	116	15																
82	86	21																	
86	90	5																	
90	94	42	1																
94	98	9																	
98	102	104																	

Table B-1. (continued)

Distances, m		Compliance level 1 (10)	2 (366)	3 (447)	4 (70.8)	5 (86.6)	6 (100.0)	7 (141.3)	8 (173.2)	9 (200.0)	10 (223.9)	11 (244.9)	12 (264.6)	13 (281.8)	14 (300.0)	15 (316.2)	16 (446.7)	17 (708.0)	18 (1000.0)
< D ≤		Number of stations requiring exclusion of the public to the given distance from the antenna																	
102	106	9																	
106	110	12																	
110	114	1																	
∿	∿																		
154	158	1																	
158	162	1																	
∿	∿																		
210	214	7																	
∿	∿																		
218	222	1																	
222	226	65																	
226	230	11																	
230	234	18																	
234	238	7																	
∿	∿																		
242	246	28																	
∿	∿																		
254	258	2																	
258	262	1																	
∿	∿																		
266	270	9																	
TOTAL		4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622	4622

- o All stations are assumed to require an electronic survey whether or not they require modifications to comply with a guidance.
- o A more detailed list of assumptions is given in Volume 1.

The cost of any guidance level studied can be computed at any of the three cost levels by using the cost data presented in Table B-2 and using the procedure described in this appendix.

SOCIAL COST

The cost to society-at-large includes the cost of carrying out a survey at all 4622 stations and the cost of installing a fence and access gate at those stations that do not comply with the standard. The total medium level cost of the compliance survey is the product of the number of stations, 4622, and the cost of compliance at each station, $2000, which results in a total cost of $9.244 million. The cost of the fence at a distance D is given by the expression

$$CFD(D) = [[(D \cdot 8 \cdot 3.28) - 20] \cdot CF + CG] \cdot NSF(D), \qquad (B\text{-}1)$$

where

CFD(D) = cost of fence as a function of distance D, $;

D = radial distance from the tower that the signal is over-standard,m;

CF = cost of fence, $/ft;

CG = cost of gate, $;

NSF(D) = number of stations at distance D that require fencing in order to comply; NSF is derived by multiplying the entries in Table B-1 (at distances greater than 2 m) by one of three factors, 0.50 for the low cost, 0.6666 for the medium cost, and 0.85 for the high cost analysis, which represent three assumptions concerning the percentage of AM towers already adequately fenced; and

8 = the radius used to estimate the size of a square area to be fenced where the sides of the square are tangent to the circumference of the circle and the total length of the sides of the square = 8r.

Table B-2. Costs of compliance measures for AM radio broadcast stations.[a]

a. Survey of electromagnetic environment around tower to determine compliance with guideline and need for compliance measure.

	Cost per station		
	Low	Medium	High
Survey	$1,500	$2,000	$2,500

b. Compliance measure applicable to AM: fencing to positively keep the public out of areas exposed to over-standard levels of RF.

	Cost per station		
	Low	Medium	High
Fencing	$ 6/ft	$ 9/ft	$ 12/ft
Gate	$400	$600	$800

[a] From Table 10, Volume 1.

The total cost to society of the fencing required to comply with a given standard is given by

$$TCC = \sum_{i=1}^{n} CFD(D_i) , \qquad (B\text{-}2)$$

where

TCC = total cost of compliance measure to society-at-large,

$CFD(D_i)$ = cost of the fence at the ith distance D, and

n = total number of distance categories.

Table B-3 summarizes the results of applying these calculations to the information in Column 6 of Table B-1. Listed below is the total cost to society-at-large derived from the information discussed above and taken from Table B-3.

Total gross cost of compliance survey, TCS	$ 9,244,000
Total cost of compliance measures, TCC	7,910,491
Total gross cost of compliance, TGC	$17,154,491
Annual cash flow cost, ACFC	$ 3,430,898
Present value, PV	$14,306,384

Table B-3. An example of the calculation of the social cost of guidelines limiting public exposure to radiofrequency radiation from AM broadcast sources is given for compliance with the 100 V/m guidance at the medium-cost level.

Distance[a] (m)	Gross number of stations	Net number of stations that require fence[b]	Cost per station of fence and gate $	Total cost of fence and gate at distance D ($1000)
8	2673	1781	$2,309	$4,114,725
12	1125	750	3,254	2,440,196
16	194	129	4,199	542,959
20	79	53	5,143	270,848
24	54	36	6,088	219,140
28	48	32	7,032	225,017
32	16	11	7,977	85,081
36	1	1	8,922	5,947
40	1	1	9,866	6,577
		2,794		$7,910,491

[a] Mean of distance range in Table B-1.

[b] Second column times medium-cost, no-fence-needed adjustment, 0.6666.

Annual cash flow cost is the total gross cost divided by five years. The present value is calculated by discounting the annual cash flow cost at 10% for five years using the standard present value formula

$$PV = \sum_{k=1}^{5} ACFC/1.1^{k-1} . \qquad \text{(B-3)}$$

COST TO INDUSTRY

The cost to the AM broadcast industry of a guideline limiting public exposure to radiofrequency radiation includes the survey cost and the capital and finance cost of the fence. This section illustrates how the annual, total, and average cash flow and the present value of the net after-tax cost are computed for the 100 V/m guidance level. It is

assumed that compliance costs are spread evenly among five cohorts of stations and that loan amortization and interest payments continue for five years after initial installation of the fence. The data requirements for this calculation are as follows,

- Total cost of survey, TCS — $9,244,000
- Total cost of fence, TCC — $7,910,491
- Tangible property, TP — $7,910,491
- Down payment on fence (25% of cost of fence), DP — $1,977,623
- Amount borrowed (75% of cost of fence), TLP — $5,932,868
- Interest rate — 0.10
- Repayment period — 5 years
- Annual principal payment, AM(k) — $1,186,574
- Effective tax rate — 0.46
- Investment tax credit (10% of fence cost), ITC — 0.10
- Expensed costs, year 0, (TCS), EX — $9,244,000
- Depreciation schedule

Year 1	0.15 (TP) = DPN(1)
Year 2	0.22 (TP) = DPN(2)
Year 3	0.21 (TP) = DPN(3)
Year 4	0.21 (TP) = DPN(4)
Year 5	0.21 (TP) = DPN(5)

Table B-4 provides a summary of the calculation of the annual cash flow over a period of five years based on the information provided above. The calculation considers the gross cash flow, tax shelter effect, net cash flow cost that result from expenses, loan down payment, loan amortization, interest payments, depreciation, and investment tax credit. The annual loan amortization is the amount borrowed divided by five. The interest is assumed to be paid on the remaining balance at the end of each year. The only non-depreciable expense considered is that of the survey, which takes place in the first year. The tax effect of expenses, interest, and depreciation is determined by multiplying each of these factors by the effective tax rate. The investment tax credit is based on the value of the tangible property, the fence, in the first year. The yearly gross cash flow is determined as follows:

$$GCF(0) = DP(0) + TCS(0), \text{ for } k = 0, \text{ or} \qquad \text{(B-4)}$$
$$GCF(k) = AM(k) + IN(k), \text{ for } k = 1 \text{ to } 5,$$

Table B-4. A sample calculation of the costs to the AM broadcast industry of guidelines limiting public exposure to radiofrequency radiation is given for compliance with the 100 V/m guidance at the medium-cost-level. Numbers are in millions of dollars.

Parameter	Year 0	1	2	3	4	5
			Industry costs			
EX	$9.244					
DP	1.977					
AM		$1.187	$1.187	$1.187	$1.187	$1.187
IN		0.593	0.475	0.356	0.237	0.119
GCF	11.222	1.780	1.661	1.543	1.424	1.305
TREX	4.252					
TRIN		0.273	0.218	0.164	0.109	0.055
TRDPN		0.545	0.801	0.764	0.764	0.764
ITC	0.791					
TS	5.043	0.819	1.019	0.928	0.873	0.819
NCF	$6.178	$0.961	$0.642	$0.615	$0.551	$0.486
			Cohort costs			
CNCF	$1.236	$0.192	$0.128	$0.123	$0.110	$0.097

where

GCF(k) = gross cash flow cost in year k,
TCS(0) = total survey cost,
DP(0) = down payment on fence,
AM(k) = loan amortization in year k,
IN(k) = interest payment in year k, and
k = year index; 0 = year of compliance; 1-5 = continued compliance costs.

The yearly tax shelter effect is given by

$$TS(0) = TREX(0) + ITC(0), \text{ for } k = 0, \text{ or} \qquad \text{(B-5)}$$
$$TS(k) = TRIN(k) + TRDPN(k), \text{ for } k = 1 \text{ to } 5$$

where

$TS(k)$ = tax shelter in year k,
$TREX(k)$ = $0.46 \cdot Ex(k)$,
ITC = investment tax credit,
$TRIN(k)$ = $0.46 \cdot IN(k)$,
$TRDPN(k)$ = $0.46 \cdot DPN(k)$, and
k = year index, 0 to 5.

The net cash flow in year k, NCF(k) is the difference between the gross cash flow, GCF(k) and the tax shelter TS(k) and is given by

$$NCF(k) = GCF(k) - TS(k) . \qquad \text{(B-6)}$$

Table B-4 shows how costs are calculated for a cohort of AM broadcast stations using the variables discussed above for compliance with the 100 V/m guideline. The values in the last row of Table B-4 are shown for each cohort in Table B-5. The additional values shown in Tables B-4 and B-5 are computed as follows

$$CNCF(k) = NCF(k)/5 , \qquad \text{(B-7)}$$

where

$CNCF(k)$ = the cohort net cash flow cost in year k, and
$NCF(k)$ = the industry net cash flow cost in year k.

The six years of cohort costs, CNCF(k), for five cohorts are spread over a total of 10 years as shown in Table B-5. The total cost for each year, TNCF(k), is the sum of the individual CNCF(k)s for a given year; because the five cohorts' expenses occur over five years and the cohorts are staggered, the costs to industry are spread over a 10 year period. See Table B-5.

$$ANCF = \sum_{k=1}^{10} TNCF(k) \ /10. \qquad \text{(B-8)}$$

Table B-5. The cost to the AM broadcast industry of guidelines limiting public exposure to radiofrequency radiation is given for compliance with the 100 V/m guidance at the medium cost level. Numbers are in millions of dollars.

	Year									
Cohort	1	2	3	4	5	6	7	8	9	10
CNCF 1	$1.236	$0.192	$0.128	$0.123	$0.110	$0.097				
CNCF 2		1.236	0.192	0.128	0.123	0.110	$0.097			
CNCF 3			1.236	0.192	0.128	0.123	0.110	$0.097		
CNCF 4				1.236	0.192	0.128	0.123	0.110	$0.097	
CNCF 5					1.236	0.192	0.128	0.123	0.110	$0.097
TNCF	$1.236	$1.428	$1.556	$1.679	$1.789	$0.651	$0.459	$0.330	$0.207	$0.097
ANCF =	$0.943									
PV =	$7.275									

$$PV = \sum_{k=1}^{10} TNCF(k)/1.1^{k-1}, \qquad \text{(B-9)}$$

where

ANCF = the average annual net cash flow cost for the industry,
TNCF(k) = the total net cash flow cost for all five cohorts, and
PV = present value of the cost to industry.

EFFECTS ON THE AVERAGE PROFITABLE AM BROADCAST STATION

In this section, a sample calculation is presented of the cost of the 100 V/m guideline on the average profitable AM radio station. The objective is to determine the net annual cost of compliance over a six year period. From this, the present value of the net cost of compliance is determined. It is assumed that the average profitable AM station has a yearly gross income of $103,850 throughout the period of analysis.

The gross cash flow cost for the average station of compliance is given by the expression

$$AGCF(0) = ACS(0) + ADP, \text{ for } k = 0, \text{ or} \qquad \text{(B-10)}$$
$$AGCF(k) = AIN(k) + AAM(k), \text{ for } k = 1 \text{ to } 5$$

where

AGCF(k) = average gross cash flow cost in year k,
ACS = cost of survey per station,
ADP = average cost of the down payment per station,
AIN(k) = average interest cost in time period k per station,
AAM(k) = average amortization cost per station in year k, and
k = year index, 0 to 5.

The average down payment, interest, and amortization cost in each time period are obtained by using the corresponding values for the entire industry from Table B-4 and dividing by the number of stations required to install compliance measures, in the case of the 100 V/m, medium-cost-level, 2,794 stations (see Table B-3). In addition, the average station tax shelter from depreciation is obtained by dividing the industry value in Table B-4 by 2,794. The effect of averaging costs in this manner is to create a weighted average cost over all compliance measures for the average firm. These calculations are summarized in Table B-6.

The average taxable operating income is given by

$$ATOI(0) = AOIA(0) + ADP(0), \text{ for } k = 0, \text{ or} \qquad \text{(B-11)}$$
$$ATOI(k) = AOIA(k) + AAM(k) - ADPN(k), \text{ for } k = 1 \text{ to } 5,$$

where

ATOI(k) = average taxable operating income in year k,
AOIA(k) = average operating income after compliance in year k,
ADP(0) = average down payment in year 0,
AAM(k) = average amortization in year k,
ADPN(k) = average depreciation in year k, and
k = year index, 0 to 5.

Table B-6. A sample calculation of the costs to the average profitable AM broadcast station of guidelines limiting public exposure to radiofrequency radiation is given for compliance with the 100 V/m, medium-cost level.

Parameter	Pre Guideline	Years of compliance expense 0	1	2	3	4	5
AOIB	$103,850	$103,850	$103,850	$103,850	$103,850	$103,850	$103,850
AGCF		2,708	637	595	552	510	467
AOIA	103,850	101,142	103,213	103,255	103,298	103,340	103,383
ADP/AAM		708	425	425	425	425	425
ADPN			425	623	595	595	595
ATOI	103,850	101,850	103,213	103,057	103,128	103,170	103,213
AGT	27,521	26,601	27,228	27,156	27,189	27,208	27,228
AITC		283					
ANT	-27,521	-26,318	-27,228	-27,156	-27,189	-27,208	-27,228
ANIA	$76,329	$74,824	$75,985	$76,099	$76,109	$76,132	$76,155
		Net annual cost of compliance					
AGCF		$2,708	$637	$595	$552	$510	$467
ATSA		-1,203	-293	-365	-332	-313	-293
NCC		$1,505	$344	$230	$220	$197	$174
ANCC	$445						

	Present value					
	Average	Cohort 1	Cohort 2	Cohort 3	Cohort 4	Cohort 5
PV	$2,014	$2,416	$2,196	$1,996	$1,815	$1,650

In order to calculate tax savings the following corporate tax rates are applied.

Income tax bracket ATOI		Tax rate
Minimum	Maximum	
$0	$25,000	$TR_1 = 0.15$
$25,001	$50,000	$TR_2 = 0.18$
$50,001	$75,000	$TR_3 = 0.30$
$75,001	$100,000	$TR_4 = 0.40$
$100,001	No maximum	$TR_5 = 0.46$

Taxable income bracket	Tax formula	
for $ATOI(k) > \$100,000$	$AGT(k) = \$25,000\,(TR_1+TR_2+TR_3+TR_4) + TR_5\,(ATOI(k) - \$100,000)$,	(B-12)
for $\$75,000 < ATOI(k) \leq \$100,000$	$AGT(k) = \$25,000\,(TR_1+TR_2+TR_3) + TR_4\,(ATOI(k) - \$75,000)$,	(B-13)
for $\$50,000 < ATOI(k) \leq \$75,000$	$AGT(k) = \$25,000\,(TR_1+TR_2) + TR_3\,(ATOI(k) - \$50,000)$,	(B-14)
for $\$25,000 < ATOI(k) \leq \$50,000$	$AGT(k) = \$25,000(TR_1) + TR_2\,(ATOI(k) - \$25,000)$,	(B-15)
for $ATOI(k) \leq \$25,000$	$AGT(k) = ATOI(k)\,TR_1$,	(B-16)

where

$AGT(k)$ = average gross tax in year k,
$ATOI(k)$ = average taxable operating income in year k, and
TR_j = tax rate for income bracket j.

The average gross tax is given in Table B-6 for each time period. The net tax, ANT(k), also given in B-6, is obtained by subtracting the average station investment tax credit, $659,000/2794 = $236, from the gross tax in year 0.

The average net operating income after tax, ANIA(k), in year k is given by

$$ANIA(k) = AOIA(k) - ANT(k), \text{ for } k = 0,5 \qquad \text{(B-17)}$$

where

AOIA(k) = average income after compliance and before taxes in year k, and
ANT(k) = average net tax in year k.

The average tax savings in year k, ATSA(k), is given by

$$ATSA(k) = ANTB - ANT(k), \qquad \text{(B-18)}$$

where

ANTB = average net tax in the year prior to the guideline, and
ANT(k) = average net tax in year k.

The annual net cost of compliance, NCC(k), in year k is

$$NCC(k) = AGCF(k) - ATSA(k), \qquad \text{(B-19)}$$

where

AGCF(k) = the average gross cash flow cost of compliance in year k, and
ATSA(k) = the average tax savings in year k.

The average annual net cost, ANCC, is the sum of the year net costs, $2,670, divided by six years, or $445 average cost per year.

The present value, PV, is obtained from the general expression

$$PV = \sum_{k=1}^{5} NCC(k)/(1.1)^{k-1}, \qquad \text{(B-20)}$$

where

PV = present value, and
NCC(k) = annual net cost of compliance in year k.

However, this is the present value of the cost of compliance for a firm the first cohort only. For a firm in the c^{th} cohort the present value is given by the expression

$$PV(c) \sum_{k=1}^{5} ANCC(k)/(1.1)^{k-2+c}, \qquad \text{(B-21)}$$

where

PV(c) = the present value of the cost of compliance for a firm in the c^{th} cohort, and

NCC(k) = the annual net cost of compliance for the average firm.

The average present value, APV, is obtained by calculating the mean of the cohort present values

$$APV = \left[\sum_{c=1}^{5} PV(c)\right]/5. \qquad \text{(B-22)}$$

APPENDIX C
ECONOMIC METHODOLOGY: SAMPLE COMPUTATIONS AND ENGINEERING DATA FOR TV BROADCAST STATIONS

The object of this appendix is to provide a detailed sample calculation of social, industry, and average TV broadcast station cost of complying with guidelines limiting exposure to nonionizing radiation from TV transmitters. In Volume 1, the cost analysis is presented for eighteen power densities at three cost levels. For the sample computation here, a single guidance level 6 -- 100 $\mu W/cm^2$ -- at the medium-cost level is selected. The first step in the analysis is to determine the minimum cost measure that will achieve compliance for each TV station. Then, the total cost for the whole industry is determined. From this, the cost to society-at-large, to industry, and to the average TV broadcast station are derived. The cost to society is expressed in terms of the total gross cost, the annual cash flow cost, and the present value. Cost to industry is expressed in terms of the total industry average, annual net cash flow cost over a period of ten years, and the present value. The cost to the average firm is expressed in terms of the average and annual net cash flow cost and the average present value for the average profitable station.

MINIMUM COST OF COMPLIANCE

The minimum-cost analysis for each station requires data in Table C-1. Briefly, Table C-1 contains 9 columns of information on every VHF-TV and UHF-TV station. The first column is the EPA-designated station number (SN); the second, the height of the current antenna in feet (CTH); the third, the height of a new tower required to achieve reduction in power density to the required level using the existing antenna (EATH); the fourth, the height of a new tower required if a new antenna is installed that is designed for reduced downward radiation (NATH); the fifth, whether or not a new, low-downward radiation antenna would achieve compliance on the existing tower (NACT); the sixth, the type of antenna (TYPE); the seventh, the channel (CHNL); the eighth, the effective radiated power (ERP); and the ninth, the power density level (PD).

The cost of compliance includes the cost of a survey for every TV station and the cost of modifications at those stations that require a "fix" to bring them into compliance. These components are shown in Table C-2. In the medium cost scenario, the cost of a survey is $2000 per station. There are 1080 TV stations (UHF and VHF) in the U.S. Thus, the total survey cost is $2000 x 1080 or $2.16 million. However, there are only

TABLE C-1 AN ANALYSIS OF THE REQUIREMENTS FOR COMPLIANCE WITHGUIDELINES LIMITING PUBLIC EXPOSURE TO RADIOFREQUENCY RADIATION FROM VHF-TV AND UHF-TV SOURCES IS GIVEN FOR 18 POWER DENSITY LEVELS. (SOURCE: EPA, ORP, LAS VEGAS, NV).

STATION NUMBER (SN)	CURRENT TOWER HEIGHT (CTH)	EXISTING ANTENNA TOWER HEIGHT (EATH)	NEW ANTENNA TOWER HEIGHT (NATH)	NEW ANTENNA CURRENT TOWER (NACT)	TYPE	CHNL	EFFECTIVE RADIATION POWER (ERP)	POWER DENSITY (PD)
1	30.0	1072.7	421.4	NO	VHF	11	98.80	1
2	30.0	294.0	115.5	NO	VHF	13	7.42	1
3	30.0	228.4	89.7	NO	VHF	3	4.48	1
4	30.0	201.1	79.0	NO	VHF	13	3.47	1
5	30.0	468.4	184.0	NO	VHF	10	18.84	1
6	30.0	455.6	179.0	NO	VHF	7	17.82	1
7	30.0	473.4	186.0	NO	VHF	12	19.24	1
8	30.0	1126.1	563.0	NO	UHF	53	352.80	1
9	30.0	115.0	45.2	NO	VHF	11	1.14	1
10	30.0	821.9	322.9	NO	VHF	9	58.00	1
11	30.0	676.9	265.9	NO	VHF	10	39.34	1
12	30.0	740.5	290.9	NO	VHF	10	47.08	1
13	30.0	311.6	122.4	NO	VHF	3	8.34	1
14	30.0	231.5	90.9	NO	VHF	13	4.60	1
15	30.0	944.9	472.5	NO	UHF	51	248.40	1
16	40.0	937.1	368.1	NO	VHF	11	75.40	1
17	42.0	347.3	136.5	NO	VHF	4	10.36	1
18	42.0	146.2	57.4	NO	VHF	10	1.84	1
19	49.0	598.1	235.0	NO	VHF	2	30.72	1
20	50.0	1060.7	416.7	NO	VHF	8	96.60	1
21	50.0	831.7	326.7	NO	VHF	8	59.40	1
22	56.0	892.5	350.6	NO	VHF	7	68.40	1
23	56.0	1042.7	521.4	NO	UHF	33	302.50	1
24	59.0	305.2	119.9	NO	VHF	2	8.00	1
25	66.0	121.0	0.	YES	UHF	65	4.08	1
26	66.0	511.2	200.8	NO	VHF	3	22.44	1
27	67.0	895.8	351.9	NO	VHF	12	68.90	1
28	69.0	818.3	321.5	NO	VHF	12	57.50	1
29	70.0	648.6	254.8	NO	VHF	8	36.12	1
30	71.0	889.9	349.6	NO	VHF	8	68.00	1
31	71.0	1273.7	500.3	NO	VHF	12	139.30	1
32	73.0	440.7	173.1	NO	VHF	5	16.68	1
33	73.0	721.0	283.2	NO	VHF	13	44.64	1
34	74.0	1296.8	509.4	NO	VHF	12	144.40	1
35	76.0	1483.2	582.7	NO	VHF	7	188.90	1
36	79.0	1608.7	804.4	NO	UHF	57	720.00	1
37	80.0	110.5	0.	YES	UHF	24	3.40	1
38	81.0	561.0	220.4	NO	VHF	9	27.02	1
39	81.0	456.1	179.2	NO	VHF	4	17.86	1
40	83.0	1403.7	551.4	NO	VHF	13	169.20	1
41	84.0	919.5	459.7	NO	UHF	36	235.20	1
42	84.0	915.1	359.5	NO	VHF	10	71.90	1
43	85.0	1349.6	530.2	NO	VHF	10	156.40	1
44	89.0	835.9	328.4	NO	VHF	5	60.00	1
45	90.0	712.4	279.9	NO	VHF	5	43.58	1
46	90.0	786.7	393.4	NO	UHF	42	172.20	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
47	90.0	612.6	240.6	NO	VHF	5	32.22	1
48	91.0	319.0	159.5	NO	UHF	20	28.32	1
49	92.0	537.2	211.0	NO	VHF	4	24.78	1
50	95.0	438.4	172.2	NO	VHF	11	16.50	1
51	97.0	1061.4	530.7	NO	UHF	47	313.40	1
52	97.0	1322.8	661.4	NO	UHF	54	486.80	1
53	99.0	2240.8	1120.4	NO	UHF	51	1397.00	1
54	100.0	619.0	243.2	NO	VHF	2	32.90	1
55	101.0	491.9	193.2	NO	VHF	2	20.78	1
56	102.0	1522.6	761.3	NO	UHF	20	645.00	1
57	103.0	1418.7	709.4	NO	UHF	30	560.00	1
58	103.0	579.1	227.5	NO	VHF	4	28.80	1
59	104.0	2209.9	1105.0	NO	UHF	18	1358.70	1
60	106.0	1337.0	525.2	NO	VHF	10	153.50	1
61	106.0	1467.0	733.5	NO	UHF	29	598.70	1
62	106.0	825.4	324.2	NO	VHF	12	58.50	1
63	107.0	1422.7	558.9	NO	VHF	8	173.80	1
64	107.0	670.8	263.5	NO	VHF	13	38.64	1
65	108.0	322.3	126.6	NO	VHF	5	8.92	1
66	109.0	2006.4	1003.2	NO	UHF	31	1120.00	1
67	109.0	176.4	0.	YES	UHF	21	8.66	1
68	110.0	1485.6	583.6	NO	VHF	8	189.50	1
69	112.0	2571.7	1285.8	NO	UHF	40	1840.00	1
70	112.0	1105.3	552.7	NO	UHF	21	339.90	1
71	113.0	1687.2	843.6	NO	UHF	22	792.00	1
72	117.0	764.3	382.1	NO	UHF	50	162.50	1
73	117.0	663.5	260.6	NO	VHF	13	37.80	1
74	119.0	973.0	486.5	NO	UHF	23	263.40	1
75	120.0	2079.4	1039.7	NO	UHF	21	1203.00	1
76	121.0	1262.7	631.4	NO	UHF	15	443.60	1
77	123.0	1013.0	506.5	NO	UHF	32	285.50	1
78	123.0	178.9	0.	YES	VHF	4	2.75	1
79	125.0	672.4	264.1	NO	VHF	6	38.82	1
80	126.0	1008.6	504.3	NO	UHF	29	283.00	1
81	129.0	355.5	177.7	NO	UHF	21	35.16	1
82	129.0	1063.9	418.0	NO	VHF	9	97.20	1
83	130.0	259.9	0.	YES	VHF	11	5.80	1
84	132.0	833.1	327.3	NO	VHF	13	59.60	1
85	133.0	397.7	156.2	NO	VHF	4	13.58	1
86	134.0	1005.4	395.0	NO	VHF	7	86.80	1
87	135.0	550.3	216.2	NO	VHF	6	26.00	1
88	135.0	1077.5	538.7	NO	UHF	35	323.00	1
89	135.0	648.6	254.8	NO	VHF	10	36.12	1
90	137.0	150.5	0.	YES	UHF	40	6.30	1
91	138.0	1052.9	526.4	NO	UHF	21	308.40	1
92	140.0	3202.3	1601.1	NO	UHF	39	2853.00	1
93	140.0	1863.4	931.7	NO	UHF	58	966.00	1
94	140.0	959.2	376.8	NO	VHF	12	79.00	1
95	141.0	1669.0	834.5	NO	UHF	60	775.00	1
96	141.0	356.9	0.	YES	VHF	4	10.94	1
97	142.0	455.3	178.9	NO	VHF	6	17.80	1
98	143.0	1948.2	974.1	NO	UHF	23	1056.00	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
99	144.Ø	2279.Ø	1139.5	NO	UHF	38	1445.ØØ	1
1ØØ	149.Ø	835.9	328.4	NO	VHF	4	6Ø.ØØ	1
1Ø1	15Ø.Ø	1192.1	596.1	NO	UHF	34	395.4Ø	1
1Ø2	15Ø.Ø	442.1	173.7	NO	VHF	2	16.78	1
1Ø3	151.Ø	549.6	215.9	NO	VHF	3	25.94	1
1Ø4	151.Ø	795.9	312.7	NO	VHF	3	54.4Ø	1
1Ø5	152.Ø	277.1	Ø.	YES	UHF	52	21.36	1
1Ø6	153.Ø	11Ø9.Ø	435.6	NO	VHF	7	1Ø5.6Ø	1
1Ø7	155.Ø	1421.Ø	71Ø.5	NO	UHF	16	561.8Ø	1
1Ø8	157.Ø	13Ø5.3	512.8	NO	VHF	9	146.3Ø	1
1Ø9	158.Ø	122Ø.9	479.6	NO	VHF	11	128.ØØ	1
11Ø	159.Ø	2164.5	1Ø82.2	NO	UHF	52	13Ø3.4Ø	1
111	16Ø.Ø	8ØØ.3	314.4	NO	VHF	6	55.ØØ	1
112	16Ø.Ø	1161.6	58Ø.8	NO	UHF	4Ø	375.4Ø	1
113	16Ø.Ø	648.6	254.8	NO	VHF	6	36.12	1
114	161.Ø	1592.2	796.1	NO	UHF	14	7Ø5.3Ø	1
115	162.Ø	2217.Ø	11Ø8.5	NO	UHF	36	1367.5Ø	1
116	163.Ø	781.9	3Ø7.2	NO	VHF	6	52.5Ø	1
117	167.Ø	1ØØ3.1	394.1	NO	VHF	11	86.4Ø	1
118	167.Ø	1Ø51.3	413.Ø	NO	VHF	7	94.9Ø	1
119	167.Ø	876.Ø	344.1	NO	VHF	9	65.9Ø	1
12Ø	168.Ø	1Ø39.1	519.6	NO	UHF	42	3ØØ.4Ø	1
121	169.Ø	487.4	191.5	NO	VHF	5	2Ø.4Ø	1
122	17Ø.Ø	1ØØ1.9	393.6	NO	VHF	13	86.2Ø	1
123	17Ø.Ø	429.2	Ø.	YES	VHF	9	15.82	1
124	172.Ø	2149.1	1Ø74.6	NO	UHF	22	1285.ØØ	1
125	173.Ø	1771.7	885.9	NO	UHF	23	873.3Ø	1
126	174.Ø	1Ø2Ø.4	4ØØ.8	NO	VHF	12	89.4Ø	1
127	175.Ø	2ØØ.1	Ø.	YES	UHF	55	11.14	1
128	178.Ø	8ØØ.3	314.4	NO	VHF	3	55.ØØ	1
129	178.Ø	1289.6	5Ø6.6	NO	VHF	8	142.8Ø	1
13Ø	18Ø.Ø	849.7	333.8	NO	VHF	7	62.ØØ	1
131	182.Ø	17Ø5.2	852.6	NO	UHF	46	8Ø9.ØØ	1
132	182.Ø	1356.5	532.9	NO	VHF	1Ø	158.ØØ	1
133	183.Ø	564.7	221.8	NO	VHF	2	27.38	1
134	184.Ø	141Ø.8	554.2	NO	VHF	7	17Ø.9Ø	1
135	185.Ø	1647.3	823.7	NO	UHF	19	755.ØØ	1
136	185.Ø	1422.7	558.9	NO	VHF	9	173.8Ø	1
137	187.Ø	759.6	298.4	NO	VHF	7	49.54	1
138	187.5	1Ø92.6	546.3	NO	UHF	25	332.1Ø	1
139	188.Ø	715.2	357.6	NO	UHF	15	142.3Ø	1
14Ø	188.Ø	255.6	Ø.	YES	VHF	9	5.61	1
141	19Ø.Ø	54Ø.Ø	212.1	NO	VHF	5	25.Ø4	1
142	19Ø.Ø	1914.7	957.4	NO	UHF	29	1Ø2Ø.ØØ	1
143	191.Ø	1Ø87.Ø	543.5	NO	UHF	15	328.7Ø	1
144	194.Ø	142Ø.2	557.9	NO	VHF	1Ø	173.2Ø	1
145	195.Ø	15Ø6.5	753.2	NO	UHF	14	631.4Ø	1
146	195.Ø	1247.Ø	623.5	NO	UHF	4Ø	432.6Ø	1
147	198.Ø	1356.5	532.9	NO	VHF	13	158.ØØ	1
148	198.Ø	1421.Ø	558.2	NO	VHF	1Ø	173.4Ø	1
149	199.Ø	835.9	328.4	NO	VHF	3	6Ø.ØØ	1
15Ø	2ØØ.Ø	1116.5	558.2	NO	UHF	47	346.8Ø	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
151	201.0	1485.9	583.7	NO	VHF	8	189.60	1
152	203.0	1414.1	555.5	NO	VHF	9	171.70	1
153	203.0	1237.5	486.1	NO	VHF	7	131.50	1
154	205.0	1131.8	444.6	NO	VHF	10	110.00	1
155	205.0	1558.8	779.4	NO	UHF	18	676.00	1
156	207.0	1139.5	447.6	NO	VHF	10	111.50	1
157	207.0	817.6	321.2	NO	VHF	3	57.40	1
158	208.0	896.7	448.3	NO	UHF	19	223.70	1
159	208.0	1356.5	532.9	NO	VHF	9	158.00	1
160	211.0	2997.6	1498.8	NO	UHF	20	2500.00	1
161	212.0	2387.9	1194.0	NO	UHF	26	1586.40	1
162	213.0	444.7	0.	YES	VHF	2	16.98	1
163	214.0	1371.4	538.7	NO	VHF	8	161.50	1
164	214.0	1485.6	583.6	NO	VHF	8	189.50	1
165	214.0	1383.7	543.6	NO	VHF	12	164.40	1
166	214.0	2223.1	1111.6	NO	UHF	50	1375.00	1
167	215.0	1433.3	563.0	NO	VHF	7	176.40	1
168	215.0	2149.1	1074.6	NO	UHF	14	1285.00	1
169	219.0	2326.3	1163.2	NO	UHF	26	1505.60	1
170	219.0	1325.2	520.6	NO	VHF	13	150.80	1
171	221.0	695.7	273.3	NO	VHF	11	41.56	1
172	222.0	652.0	256.1	NO	VHF	8	36.50	1
173	222.0	2383.8	1191.9	NO	UHF	47	1581.00	1
174	225.0	1558.5	779.3	NO	UHF	17	675.80	1
175	225.0	1141.9	571.0	NO	UHF	15	362.80	1
176	226.0	1144.6	449.6	NO	VHF	13	112.50	1
177	226.0	1315.5	516.8	NO	VHF	7	148.60	1
178	230.0	842.2	330.8	NO	VHF	10	60.90	1
179	231.0	2282.9	1141.5	NO	UHF	17	1450.00	1
180	232.0	2333.1	1166.5	NO	UHF	30	1514.40	1
181	234.0	763.1	299.8	NO	VHF	2	50.00	1
182	235.0	843.8	421.9	NO	UHF	67	198.10	1
183	235.0	605.5	237.9	NO	VHF	4	31.48	1
184	242.0	2028.7	1014.3	NO	UHF	33	1145.00	1
185	242.0	1386.7	693.4	NO	UHF	15	535.00	1
186	248.0	2997.6	1498.8	NO	UHF	17	2500.00	1
187	249.0	1419.0	557.4	NO	VHF	11	172.90	1
188	250.0	369.1	0.	YES	VHF	3	11.70	1
189	250.0	763.1	299.8	NO	VHF	3	50.00	1
190	251.0	612.6	306.3	NO	UHF	18	104.40	1
191	253.5	281.8	0.	YES	VHF	3	6.82	1
192	256.0	1227.8	613.9	NO	UHF	45	419.40	1
193	257.0	311.5	0.	YES	UHF	28	27.00	1
194	261.0	1522.6	761.3	NO	UHF	29	645.00	1
195	264.0	750.1	294.7	NO	VHF	6	48.32	1
196	269.0	1028.3	404.0	NO	VHF	13	90.80	1
197	269.0	539.6	269.8	NO	UHF	54	81.00	1
198	269.0	1063.7	531.9	NO	UHF	22	314.80	1
199	276.0	1427.2	560.6	NO	VHF	8	174.90	1
200	276.0	1391.2	546.5	NO	VHF	10	166.20	1
201	277.0	464.9	0.	YES	VHF	13	18.56	1
202	280.0	1420.2	557.9	NO	VHF	12	173.20	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
203	281.0	1279.2	502.5	NO	VHF	11	140.50	1
204	281.0	1688.3	844.1	NO	UHF	24	793.00	1
205	282.0	2820.3	1410.2	NO	UHF	48	2213.00	1
206	284.0	2226.3	1113.2	NO	UHF	21	1379.00	1
207	289.0	803.5	401.7	NO	UHF	28	179.60	1
208	290.0	1064.9	532.5	NO	UHF	18	315.50	1
209	290.5	1424.7	559.7	NO	VHF	13	174.30	1
210	293.0	368.5	0.	YES	VHF	5	11.66	1
211	298.5	1649.5	824.8	NO	UHF	33	757.00	1
212	299.0	1166.2	583.1	NO	UHF	25	378.40	1
213	299.0	1349.6	530.2	NO	VHF	12	156.40	1
214	300.0	1403.3	551.3	NO	VHF	9	169.10	1
215	303.0	1125.8	562.9	NO	UHF	61	352.60	1
216	305.0	1506.0	753.0	NO	UHF	31	631.00	1
217	305.0	1486.8	743.4	NO	UHF	21	615.00	1
218	306.0	1863.4	931.7	NO	UHF	68	966.00	1
219	306.0	2740.3	1370.1	NO	UHF	19	2089.10	1
220	310.0	1125.8	562.9	NO	UHF	52	352.60	1
221	310.7	783.5	391.8	NO	UHF	62	170.80	1
222	311.0	1010.9	505.4	NO	UHF	19	284.30	1
223	312.0	663.0	331.5	NO	UHF	14	122.30	1
224	315.0	2093.8	1046.9	NO	UHF	35	1219.70	1
225	317.0	612.2	0.	YES	VHF	8	32.18	1
226	320.0	2176.5	1088.3	NO	UHF	53	1318.00	1
227	321.0	430.6	0.	YES	VHF	11	15.92	1
228	323.0	2094.1	1047.0	NO	UHF	28	1220.00	1
229	323.0	1169.6	584.8	NO	UHF	26	380.60	1
230	324.0	493.4	0.	YES	VHF	4	20.90	1
231	325.0	763.1	0.	YES	VHF	2	50.00	1
232	326.0	809.3	404.6	NO	UHF	14	182.20	1
233	327.0	766.9	0.	YES	VHF	6	50.50	1
234	328.0	1140.7	570.3	NO	UHF	24	362.00	1
235	333.0	1356.5	532.9	NO	VHF	13	158.00	1
236	333.0	800.3	0.	YES	VHF	5	55.00	1
237	333.0	764.6	0.	YES	VHF	2	50.20	1
238	334.0	1132.5	566.2	NO	UHF	49	356.80	1
239	350.0	1458.3	572.9	NO	VHF	8	182.60	1
240	355.0	970.4	485.2	NO	UHF	26	262.00	1
241	359.0	1933.4	966.7	NO	UHF	22	1040.00	1
242	360.0	1702.1	851.0	NO	UHF	43	806.00	1
243	360.0	488.5	0.	YES	UHF	25	66.40	1
244	361.0	1615.5	807.8	NO	UHF	58	726.10	1
245	363.0	1194.6	597.3	NO	UHF	66	397.00	1
246	366.0	1147.7	450.8	NO	VHF	9	113.10	1
247	366.0	1485.6	583.6	NO	VHF	11	189.50	1
248	366.0	1016.4	399.3	NO	VHF	11	88.70	1
249	370.0	1677.1	838.5	NO	UHF	31	782.50	1
250	377.0	583.4	0.	YES	UHF	40	94.70	1
251	380.0	1474.5	579.3	NO	VHF	9	186.70	1
252	386.0	1191.8	595.9	NO	UHF	41	395.20	1
253	387.0	1314.1	657.0	NO	UHF	20	480.40	1
254	390.0	835.9	0.	YES	VHF	2	60.00	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
255	395.Ø	711.9	Ø.	YES	UHF	15	141.ØØ	1
256	397.Ø	518.9	Ø.	YES	VHF	9	23.12	1
257	398.Ø	641.5	Ø.	YES	UHF	57	114.5Ø	1
258	4Ø2.Ø	594.4	Ø.	YES	VHF	5	3Ø.34	1
259	4Ø3.Ø	913.1	Ø.	YES	VHF	13	71.6Ø	1
26Ø	4Ø6.Ø	927.4	463.7	NO	UHF	57	239.3Ø	1
261	4Ø7.Ø	1732.Ø	866.Ø	NO	UHF	4Ø	834.6Ø	1
262	4Ø7.9	8Ø1.Ø	Ø.	YES	VHF	4	55.1Ø	1
263	4Ø8.Ø	894.7	447.3	NO	UHF	17	222.7Ø	1
264	4Ø8.Ø	147Ø.7	735.4	NO	UHF	15	6Ø1.8Ø	1
265	4Ø9.Ø	778.2	Ø.	YES	VHF	6	52.ØØ	1
266	414.Ø	28Ø3.1	14Ø1.5	NO	UHF	67	2186.ØØ	1
267	414.Ø	11Ø2.2	551.1	NO	UHF	25	338.ØØ	1
268	415.Ø	1211.3	6Ø5.6	NO	UHF	24	4Ø8.2Ø	1
269	416.Ø	571.2	Ø.	YES	VHF	2	28.Ø2	1
27Ø	42Ø.Ø	1777.7	888.8	NO	UHF	5Ø	879.2Ø	1
271	423.Ø	161Ø.9	8Ø5.5	NO	UHF	66	722.ØØ	1
272	425.Ø	1356.5	532.9	NO	VHF	7	158.ØØ	1
273	429.Ø	1485.6	583.6	NO	VHF	11	189.5Ø	1
274	43Ø.Ø	1485.6	583.6	NO	VHF	13	189.5Ø	1
275	43Ø.Ø	1379.9	542.1	NO	VHF	1Ø	163.5Ø	1
276	43Ø.Ø	1485.9	583.7	NO	VHF	11	189.6Ø	1
277	432.Ø	612.6	Ø.	YES	VHF	3	32.22	1
278	433.Ø	784.9	Ø.	YES	UHF	49	171.4Ø	1
279	433.Ø	763.1	Ø.	YES	VHF	5	5Ø.ØØ	1
28Ø	433.Ø	1323.5	519.9	NO	VHF	9	15Ø.4Ø	1
281	437.Ø	1ØØ6.2	5Ø3.1	NO	UHF	53	281.7Ø	1
282	445.Ø	835.9	Ø.	YES	VHF	4	6Ø.ØØ	1
283	446.Ø	546.9	Ø.	YES	VHF	4	25.68	1
284	447.Ø	767.3	Ø.	YES	UHF	14	163.8Ø	1
285	448.Ø	15Ø4.8	752.4	NO	UHF	33	63Ø.ØØ	1
286	449.Ø	835.9	Ø.	YES	VHF	2	6Ø.ØØ	1
287	45Ø.Ø	613.2	Ø.	YES	UHF	49	1Ø4.6Ø	1
288	45Ø.Ø	763.1	Ø.	YES	VHF	4	5Ø.ØØ	1
289	45Ø.Ø	835.9	Ø.	YES	VHF	2	6Ø.ØØ	1
29Ø	455.Ø	627.4	Ø.	YES	UHF	69	1Ø9.5Ø	1
291	455.Ø	835.9	Ø.	YES	VHF	5	6Ø.ØØ	1
292	456.Ø	1522.6	761.3	NO	UHF	19	645.ØØ	1
293	457.Ø	677.2	Ø.	YES	UHF	42	127.6Ø	1
294	459.Ø	118Ø.Ø	59Ø.Ø	NO	UHF	4Ø	387.4Ø	1
295	459.Ø	2328.9	1164.5	NO	UHF	24	15Ø9.ØØ	1
296	46Ø.Ø	1261.Ø	63Ø.5	NO	UHF	4Ø	442.4Ø	1
297	46Ø.Ø	1125.5	562.7	NO	UHF	31	352.4Ø	1
298	46Ø.Ø	2149.1	1Ø74.6	NO	UHF	27	1285.ØØ	1
299	46Ø.Ø	1468.5	734.3	NO	UHF	21	6ØØ.ØØ	1
3ØØ	46Ø.Ø	2222.3	1111.2	NO	UHF	16	1374.ØØ	1
3Ø1	46Ø.Ø	1387.5	545.Ø	NO	VHF	8	165.3Ø	1
3Ø2	466.Ø	664.4	Ø.	YES	UHF	18	122.8Ø	1
3Ø3	466.Ø	1437.1	718.6	NO	UHF	18	574.6Ø	1
3Ø4	467.Ø	1Ø85.8	542.9	NO	UHF	39	328.ØØ	1
3Ø5	469.Ø	2Ø98.4	1Ø49.2	NO	UHF	5Ø	1225.ØØ	1
3Ø6	473.Ø	1356.5	532.9	NO	VHF	9	158.ØØ	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
307	475.0	529.6	0.	YES	VHF	5	24.08	1
308	478.0	2309.6	1154.8	NO	UHF	24	1484.00	1
309	478.0	1009.6	504.8	NO	UHF	29	283.60	1
310	480.0	1486.8	743.4	NO	UHF	26	615.00	1
311	489.0	835.9	0.	YES	VHF	3	60.00	1
312	490.0	2737.6	1368.8	NO	UHF	22	2085.00	1
313	490.0	835.9	0.	YES	VHF	5	60.00	1
314	490.0	1624.3	812.1	NO	UHF	15	734.00	1
315	492.0	791.5	0.	YES	VHF	3	53.80	1
316	498.0	1028.9	514.4	NO	UHF	36	294.50	1
317	500.0	809.0	0.	YES	VHF	4	56.20	1
318	500.0	1485.2	583.4	NO	VHF	9	189.40	1
319	501.0	971.7	0.	YES	UHF	36	262.70	1
320	503.0	1450.1	725.0	NO	UHF	42	585.00	1
321	504.0	1356.5	532.9	NO	VHF	7	158.00	1
322	504.0	1421.0	558.2	NO	VHF	7	173.40	1
323	505.0	690.4	0.	YES	UHF	34	132.60	1
324	506.0	790.1	0.	YES	VHF	5	53.60	1
325	506.0	1421.0	558.2	NO	VHF	7	173.40	1
326	507.0	763.1	0.	YES	VHF	3	50.00	1
327	507.0	661.1	0.	YES	UHF	14	121.60	1
328	508.0	1357.8	533.4	NO	VHF	9	158.30	1
329	508.0	751.7	0.	YES	UHF	49	157.20	1
330	508.0	1918.5	959.2	NO	UHF	31	1024.00	1
331	508.0	754.6	0.	YES	VHF	12	48.90	1
332	509.0	1118.1	559.0	NO	UHF	34	347.80	1
333	509.0	1050.8	525.4	NO	UHF	35	307.20	1
334	510.0	790.6	0.	YES	UHF	15	173.90	1
335	510.0	1571.4	785.7	NO	UHF	68	687.00	1
336	510.0	893.3	0.	YES	UHF	15	222.00	1
337	511.0	1201.2	600.6	NO	UHF	28	401.40	1
338	512.0	763.1	0.	YES	VHF	3	50.00	1
339	513.0	641.5	0.	YES	UHF	26	114.50	1
340	513.0	1498.8	749.4	NO	UHF	19	625.00	1
341	515.0	1424.7	559.7	NO	VHF	8	174.30	1
342	515.0	1189.7	594.9	NO	UHF	26	393.80	1
343	516.0	763.1	0.	YES	VHF	2	50.00	1
344	516.0	1233.3	616.7	NO	UHF	29	423.20	1
345	517.0	1386.2	544.5	NO	VHF	9	165.00	1
346	520.0	1831.3	915.6	NO	UHF	22	933.00	1
347	520.0	801.0	0.	YES	VHF	5	55.10	1
348	521.0	559.2	0.	YES	UHF	19	87.00	1
349	523.0	866.7	0.	YES	VHF	12	64.50	1
350	525.0	1350.5	530.5	NO	VHF	13	156.60	1
351	525.0	1485.9	583.7	NO	VHF	7	189.60	1
352	526.0	763.1	0.	YES	VHF	4	50.00	1
353	529.0	1485.9	583.7	NO	VHF	7	189.60	1
354	530.0	1485.6	583.6	NO	VHF	13	189.50	1
355	535.0	1356.5	0.	YES	VHF	11	158.00	1
356	536.0	772.2	0.	YES	VHF	6	51.20	1
357	540.0	835.9	0.	YES	VHF	4	60.00	1
358	544.0	835.9	0.	YES	VHF	3	60.00	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
359	55Ø.Ø	835.9	Ø.	YES	VHF	3	6Ø.ØØ	1
36Ø	551.Ø	594.4	Ø.	YES	VHF	3	3Ø.34	1
361	554.Ø	835.9	Ø.	YES	VHF	3	6Ø.ØØ	1
362	556.Ø	1236.1	Ø.	YES	VHF	7	131.2Ø	1
363	557.Ø	1214.5	6Ø7.3	NO	UHF	25	41Ø.4Ø	1
364	559.Ø	1591.9	795.9	NO	UHF	47	7Ø5.ØØ	1
365	559.Ø	8ØØ.3	Ø.	YES	VHF	2	55.ØØ	1
366	56Ø.Ø	753.6	Ø.	YES	UHF	16	158.ØØ	1
367	56Ø.Ø	847.9	Ø.	YES	UHF	19	2ØØ.ØØ	1
368	562.Ø	1211.6	6Ø5.8	NO	UHF	52	4Ø8.4Ø	1
369	564.Ø	777.1	Ø.	YES	UHF	41	168.ØØ	1
37Ø	565.Ø	1373.7	686.8	NO	UHF	39	525.ØØ	1
371	565.Ø	2273.5	1136.7	NO	UHF	25	1438.ØØ	1
372	565.Ø	121Ø.1	6Ø5.Ø	NO	UHF	38	4Ø7.4Ø	1
373	565.Ø	118Ø.Ø	59Ø.Ø	NO	UHF	35	387.4Ø	1
374	567.Ø	14Ø7.5	Ø.	YES	VHF	11	17Ø.1Ø	1
375	569.Ø	2Ø75.3	1Ø37.6	NO	UHF	27	1198.2Ø	1
376	569.Ø	817.6	Ø.	YES	VHF	6	57.4Ø	1
377	57Ø.Ø	1485.2	583.4	NO	VHF	1Ø	189.4Ø	1
378	57Ø.Ø	1356.5	Ø.	YES	VHF	9	158.ØØ	1
379	57Ø.Ø	1425.1	Ø.	YES	VHF	7	174.4Ø	1
38Ø	571.Ø	763.1	Ø.	YES	VHF	2	5Ø.ØØ	1
381	571.Ø	1379.9	Ø.	YES	VHF	12	163.5Ø	1
382	574.Ø	1173.9	587.Ø	NO	UHF	53	383.4Ø	1
383	575.Ø	1485.9	583.7	NO	VHF	7	189.6Ø	1
384	577.Ø	1485.2	583.4	NO	VHF	9	189.4Ø	1
385	578.Ø	25Ø9.7	1254.9	NO	UHF	22	1752.4Ø	1
386	578.Ø	763.1	Ø.	YES	VHF	4	5Ø.ØØ	1
387	579.Ø	1485.2	583.4	NO	VHF	7	189.4Ø	1
388	581.Ø	126Ø.3	Ø.	YES	VHF	8	136.4Ø	1
389	582.Ø	1391.2	Ø.	YES	VHF	13	166.2Ø	1
39Ø	588.Ø	763.1	Ø.	YES	VHF	5	5Ø.ØØ	1
391	595.Ø	1231.4	Ø.	YES	VHF	11	13Ø.2Ø	1
392	598.Ø	14Ø2.4	7Ø1.2	NO	UHF	33	547.2Ø	1
393	6Ø2.Ø	1339.9	67Ø.Ø	NO	UHF	57	499.5Ø	1
394	6Ø4.Ø	684.1	Ø.	YES	UHF	3Ø	13Ø.2Ø	1
395	6Ø4.Ø	1356.5	Ø.	YES	VHF	1Ø	158.ØØ	1
396	6Ø4.Ø	1182.2	Ø.	YES	VHF	1Ø	12Ø.ØØ	1
397	6Ø4.Ø	1Ø11.4	Ø.	YES	UHF	14	284.6Ø	1
398	6Ø7.Ø	835.9	Ø.	YES	VHF	8	6Ø.ØØ	1
399	6Ø7.Ø	1116.2	Ø.	YES	UHF	2Ø	346.6Ø	1
4ØØ	6Ø7.Ø	835.9	Ø.	YES	VHF	2	6Ø.ØØ	1
4Ø1	6Ø9.Ø	11Ø2.9	Ø.	YES	UHF	3Ø	338.4Ø	1
4Ø2	61Ø.Ø	1487.1	Ø.	YES	VHF	12	189.9Ø	1
4Ø3	611.Ø	12Ø6.2	Ø.	YES	UHF	23	4Ø4.8Ø	1
4Ø4	612.Ø	1221.Ø	Ø.	YES	UHF	21	414.8Ø	1
4Ø5	613.Ø	2118.8	1Ø59.4	NO	UHF	53	1249.ØØ	1
4Ø6	616.Ø	28Ø8.8	14Ø4.4	NO	UHF	19	2195.ØØ	1
4Ø7	616.Ø	2Ø33.1	1Ø16.6	NO	UHF	5Ø	115Ø.ØØ	1
4Ø8	617.Ø	1222.4	Ø.	YES	VHF	1Ø	128.3Ø	1
4Ø9	622.Ø	835.9	Ø.	YES	VHF	6	6Ø.ØØ	1
41Ø	625.Ø	1Ø39.1	Ø.	YES	UHF	2Ø	3ØØ.4Ø	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
411	630.0	1541.4	770.7	NO	UHF	18	661.00	1
412	633.0	763.1	0.	YES	VHF	6	50.00	1
413	633.0	763.1	0.	YES	VHF	2	50.00	1
414	633.0	763.1	0.	YES	VHF	6	50.00	1
415	638.0	1356.5	0.	YES	VHF	13	158.00	1
416	638.0	835.9	0.	YES	VHF	4	60.00	1
417	644.0	1515.3	757.6	NO	UHF	26	638.80	1
418	649.0	1114.7	0.	YES	VHF	12	106.70	1
419	649.0	763.1	0.	YES	VHF	3	50.00	1
420	653.0	1364.5	682.3	NO	UHF	67	518.00	1
421	655.0	800.3	0.	YES	VHF	5	55.00	1
422	655.0	1423.1	0.	YES	VHF	10	173.90	1
423	656.0	1391.2	0.	YES	VHF	7	166.20	1
424	661.0	835.9	0.	YES	VHF	6	60.00	1
425	665.0	1292.8	0.	YES	UHF	44	465.00	1
426	666.0	2997.6	1498.8	NO	UHF	45	2500.00	1
427	670.0	1353.5	0.	YES	VHF	7	157.30	1
428	670.0	1461.2	730.6	NO	UHF	17	594.00	1
429	671.0	763.1	0.	YES	VHF	7	50.00	1
430	677.0	1337.5	0.	YES	UHF	54	497.70	1
431	677.0	1032.3	0.	YES	VHF	13	91.50	1
432	684.0	1406.0	703.0	NO	UHF	33	550.00	1
433	691.0	1155.4	0.	YES	UHF	23	371.40	1
434	694.0	1668.2	834.1	NO	UHF	40	774.20	1
435	694.0	2224.7	1112.4	NO	UHF	26	1377.00	1
436	700.0	835.9	0.	YES	VHF	2	60.00	1
437	702.0	1437.6	718.8	NO	UHF	17	575.00	1
438	704.0	1356.5	0.	YES	VHF	11	158.00	1
439	704.0	1301.3	0.	YES	VHF	8	145.40	1
440	705.0	1350.5	0.	YES	VHF	8	156.60	1
441	707.0	2543.3	1271.7	NO	UHF	25	1799.60	1
442	709.0	1952.8	976.4	NO	UHF	32	1061.00	1
443	710.0	1452.0	726.0	NO	UHF	35	586.60	1
444	710.0	1350.5	0.	YES	VHF	8	156.60	1
445	714.0	1144.5	0.	YES	UHF	18	364.40	1
446	715.0	991.4	0.	YES	VHF	12	84.40	1
447	717.0	835.9	0.	YES	VHF	5	60.00	1
448	719.0	1356.5	0.	YES	VHF	12	158.00	1
449	720.0	1356.5	0.	YES	VHF	10	158.00	1
450	720.0	1485.9	0.	YES	VHF	12	189.60	1
451	722.0	1422.5	0.	YES	UHF	32	563.00	1
452	728.0	2997.6	1498.8	NO	UHF	45	2500.00	1
453	730.0	1293.6	0.	YES	VHF	8	143.70	1
454	730.0	1979.4	989.7	NO	UHF	45	1090.00	1
455	730.0	1005.0	0.	YES	UHF	21	281.00	1
456	734.0	1426.8	0.	YES	VHF	7	174.80	1
457	743.0	1788.2	894.1	NO	UHF	18	889.60	1
458	744.0	1463.4	0.	YES	VHF	11	183.90	1
459	745.0	835.9	0.	YES	VHF	6	60.00	1
460	746.0	1359.9	0.	YES	VHF	7	158.80	1
461	747.0	832.4	0.	YES	VHF	6	59.50	1
462	749.0	835.9	0.	YES	VHF	4	60.00	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
463	753.Ø	884.6	Ø.	YES	VHF	8	67.2Ø	1
464	753.Ø	1151.3	Ø.	YES	UHF	2Ø	368.8Ø	1
465	753.Ø	1Ø28.9	Ø.	YES	UHF	33	294.5Ø	1
466	754.Ø	763.1	Ø.	YES	VHF	6	5Ø.ØØ	1
467	755.Ø	1128.Ø	Ø.	YES	UHF	43	354.ØØ	1
468	756.Ø	1191.Ø	Ø.	YES	VHF	11	121.8Ø	1
469	756.Ø	1ØØØ.7	Ø.	YES	UHF	2Ø	278.6Ø	1
47Ø	756.Ø	1458.Ø	Ø.	YES	UHF	18	591.4Ø	1
471	757.Ø	1Ø6Ø.2	Ø.	YES	UHF	33	312.7Ø	1
472	762.Ø	1188.7	Ø.	YES	UHF	22	342.ØØ	1
473	763.Ø	2Ø2Ø.7	1Ø1Ø.3	NO	UHF	17	1136.ØØ	1
474	764.Ø	1183.2	Ø.	YES	VHF	11	1Ø4.5Ø	1
475	765.Ø	1Ø41.Ø	Ø.	YES	UHF	55	3Ø1.5Ø	1
476	766.Ø	798.9	Ø.	YES	VHF	3	54.8Ø	1
477	769.Ø	1Ø72.6	Ø.	YES	UHF	14	32Ø.1Ø	1
478	769.Ø	1771.4	885.7	NO	UHF	26	873.ØØ	1
479	769.Ø	2995.Ø	1497.5	NO	UHF	32	2495.6Ø	1
48Ø	769.Ø	2675.8	1337.9	NO	UHF	2Ø	1992.ØØ	1
481	77Ø.Ø	1ØØ6.6	Ø.	YES	VHF	11	87.ØØ	1
482	774.Ø	1292.3	Ø.	YES	UHF	25	464.6Ø	1
483	774.Ø	2274.3	1137.2	NO	UHF	4Ø	1439.1Ø	1
484	775.Ø	1938.1	969.Ø	NO	UHF	24	1Ø45.ØØ	1
485	778.Ø	1485.2	Ø.	YES	VHF	13	189.4Ø	1
486	778.Ø	1356.5	Ø.	YES	VHF	11	158.ØØ	1
487	783.Ø	8Ø1.Ø	Ø.	YES	VHF	4	55.1Ø	1
488	789.Ø	1437.6	Ø.	YES	UHF	16	575.ØØ	1
489	789.Ø	1376.5	Ø.	YES	VHF	7	162.7Ø	1
49Ø	789.Ø	1356.5	Ø.	YES	VHF	1Ø	158.ØØ	1
491	789.Ø	2808.8	1404.4	NO	UHF	22	2195.ØØ	1
492	791.Ø	1393.2	Ø.	YES	UHF	31	54Ø.ØØ	1
493	794.Ø	1487.5	Ø.	YES	VHF	8	19Ø.ØØ	1
494	794.Ø	8Ø1.Ø	Ø.	YES	VHF	6	55.1Ø	1
495	796.Ø	853.4	Ø.	YES	UHF	15	2Ø2.6Ø	1
496	797.Ø	1Ø59.2	Ø.	YES	UHF	4Ø	312.1Ø	1
497	799.Ø	1425.9	Ø.	YES	UHF	4Ø	565.7Ø	1
498	8ØØ.Ø	1ØØØ.9	Ø.	YES	UHF	36	278.7Ø	1
499	8Ø2.Ø	1768.4	884.2	NO	UHF	23	87Ø.ØØ	1
5ØØ	8Ø4.Ø	1356.5	Ø.	YES	VHF	12	158.ØØ	1
5Ø1	8Ø4.Ø	835.9	Ø.	YES	VHF	3	6Ø.ØØ	1
5Ø2	8Ø5.Ø	1895.9	947.9	NO	UHF	44	1ØØØ.ØØ	1
5Ø3	8Ø8.Ø	1Ø76.5	Ø.	YES	VHF	8	99.5Ø	1
5Ø4	8Ø9.Ø	1479.5	Ø.	YES	UHF	46	6Ø9.ØØ	1
5Ø5	8Ø9.Ø	2746.1	1373.Ø	NO	UHF	28	2Ø98.ØØ	1
5Ø6	81Ø.Ø	1Ø1Ø.3	Ø.	YES	UHF	24	284.ØØ	1
5Ø7	811.Ø	1356.5	Ø.	YES	VHF	9	158.ØØ	1
5Ø8	812.Ø	293Ø.3	1465.2	NO	UHF	22	2389.ØØ	1
5Ø9	815.Ø	15Ø2.4	Ø.	YES	UHF	35	628.ØØ	1
51Ø	817.Ø	1366.7	Ø.	YES	VHF	7	16Ø.4Ø	1
511	819.Ø	1768.4	884.2	NO	UHF	49	87Ø.ØØ	1
512	819.Ø	835.9	Ø.	YES	VHF	5	6Ø.ØØ	1
513	821.Ø	1485.6	Ø.	YES	VHF	13	189.5Ø	1
514	827.Ø	163Ø.9	Ø.	YES	UHF	2Ø	74Ø.ØØ	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
515	831.Ø	1268.8	Ø.	YES	UHF	2Ø	447.9Ø	1
516	833.Ø	1395.Ø	Ø.	YES	VHF	8	167.1Ø	1
517	835.Ø	2Ø54.2	1Ø27.1	NO	UHF	28	1174.ØØ	1
518	835.Ø	2694.6	1347.3	NO	UHF	27	2Ø2Ø.ØØ	1
519	839.Ø	1485.6	Ø.	YES	VHF	9	189.5Ø	1
52Ø	839.Ø	924.6	Ø.	YES	VHF	8	73.4Ø	1
521	847.Ø	1557.6	Ø.	YES	UHF	68	675.ØØ	1
522	853.Ø	1328.3	Ø.	YES	VHF	13	151.5Ø	1
523	853.Ø	15Ø4.8	Ø.	YES	UHF	41	63Ø.ØØ	1
524	853.Ø	2586.5	1293.3	NO	UHF	34	1861.3Ø	1
525	854.Ø	2997.6	1498.8	NO	UHF	54	25ØØ.ØØ	1
526	855.Ø	1716.8	858.4	NO	UHF	24	82Ø.ØØ	1
527	856.Ø	1474.5	Ø.	YES	VHF	8	186.7Ø	1
528	859.Ø	1422.7	Ø.	YES	VHF	13	173.8Ø	1
529	86Ø.Ø	1747.3	873.6	NO	UHF	27	849.4Ø	1
53Ø	863.Ø	1582.8	Ø.	YES	UHF	42	697.ØØ	1
531	87Ø.Ø	1429.2	Ø.	YES	VHF	1Ø	175.4Ø	1
532	872.Ø	1347.4	Ø.	YES	VHF	8	155.9Ø	1
533	879.Ø	1526.2	Ø.	YES	UHF	43	648.ØØ	1
534	879.Ø	2141.9	1Ø71.Ø	NO	UHF	15	1276.4Ø	1
535	882.Ø	1356.5	Ø.	YES	VHF	11	158.ØØ	1
536	889.Ø	2195.3	1Ø97.6	NO	UHF	28	134Ø.8Ø	1
537	89Ø.Ø	1ØØ5.5	Ø.	YES	UHF	4Ø	281.3Ø	1
538	894.Ø	994.9	Ø.	YES	VHF	9	85.ØØ	1
539	894.Ø	1468.5	Ø.	YES	UHF	46	6ØØ.ØØ	1
54Ø	897.Ø	26Ø2.3	13Ø1.1	NO	UHF	65	1884.ØØ	1
541	897.Ø	2159.5	1Ø79.7	NO	UHF	23	1297.4Ø	1
542	899.Ø	1356.5	Ø.	YES	VHF	12	158.ØØ	1
543	899.Ø	1153.8	Ø.	YES	UHF	16	37Ø.4Ø	1
544	9Ø1.Ø	135Ø.9	Ø.	YES	VHF	12	156.7Ø	1
545	9Ø4.Ø	1615.4	Ø.	YES	UHF	19	726.ØØ	1
546	9Ø5.Ø	1629.1	Ø.	YES	UHF	19	738.4Ø	1
547	9Ø6.Ø	1458.3	Ø.	YES	VHF	1Ø	182.6Ø	1
548	9Ø7.Ø	1485.9	Ø.	YES	VHF	7	189.6Ø	1
549	9Ø7.Ø	1485.6	Ø.	YES	VHF	8	189.5Ø	1
55Ø	9Ø8.Ø	1172.3	Ø.	YES	VHF	12	118.ØØ	1
551	9Ø9.Ø	2Ø89.1	1Ø44.5	NO	UHF	14	1214.2Ø	1
552	9Ø9.Ø	1747.9	Ø.	YES	UHF	22	85Ø.ØØ	1
553	91Ø.Ø	1561.1	Ø.	YES	UHF	44	678.ØØ	1
554	91Ø.Ø	1485.9	Ø.	YES	VHF	9	189.6Ø	1
555	912.Ø	1424.7	Ø.	YES	VHF	1Ø	174.3Ø	1
556	913.Ø	1431.4	Ø.	YES	UHF	64	57Ø.ØØ	1
557	913.Ø	1Ø64.1	Ø.	YES	UHF	42	315.ØØ	1
558	913.Ø	2ØØ3.5	1ØØ1.8	NO	UHF	48	1116.8Ø	1
559	917.Ø	1356.5	Ø.	YES	VHF	12	158.ØØ	1
56Ø	918.Ø	1485.6	Ø.	YES	VHF	7	189.5Ø	1
561	919.Ø	1474.6	Ø.	YES	UHF	29	6Ø5.ØØ	1
562	92Ø.Ø	1576.Ø	Ø.	YES	UHF	23	691.ØØ	1
563	92Ø.Ø	1356.5	Ø.	YES	VHF	1Ø	158.ØØ	1
564	921.Ø	1485.2	Ø.	YES	VHF	13	189.4Ø	1
565	923.Ø	1Ø89.8	Ø.	YES	UHF	39	33Ø.4Ø	1
566	923.Ø	1787.7	Ø.	YES	UHF	41	889.1Ø	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
567	923.Ø	148Ø.1	Ø.	YES	VHF	1Ø	188.1Ø	1
568	925.Ø	1356.5	Ø.	YES	VHF	11	158.ØØ	1
569	926.Ø	971.8	Ø.	YES	VHF	8	81.1Ø	1
57Ø	926.Ø	1242.7	Ø.	YES	VHF	12	132.6Ø	1
571	926.Ø	1474.5	Ø.	YES	VHF	12	186.7Ø	1
572	926.Ø	1356.5	Ø.	YES	VHF	7	158.ØØ	1
573	927.Ø	1421.9	Ø.	YES	VHF	8	173.6Ø	1
574	927.Ø	2997.6	1498.8	NO	UHF	64	25ØØ.ØØ	1
575	928.Ø	1356.5	Ø.	YES	VHF	13	158.ØØ	1
576	928.Ø	1356.5	Ø.	YES	VHF	11	158.ØØ	1
577	929.Ø	1485.9	Ø.	YES	VHF	12	189.6Ø	1
578	929.Ø	1251.5	Ø.	YES	VHF	8	134.5Ø	1
579	929.Ø	1356.5	Ø.	YES	VHF	12	158.ØØ	1
58Ø	93Ø.Ø	14Ø7.1	Ø.	YES	VHF	1Ø	17Ø.Ø1	1
581	935.Ø	1579.4	Ø.	YES	UHF	16	694.ØØ	1
582	936.Ø	1356.5	Ø.	YES	VHF	9	158.Ø1	1
583	937.Ø	25Ø5.9	1252.9	NO	UHF	44	1747.ØØ	1
584	94Ø.Ø	17Ø1.Ø	Ø.	YES	UHF	32	8Ø5.ØØ	1
585	942.Ø	15ØØ.Ø	Ø.	YES	UHF	46	626.ØØ	1
586	945.Ø	1458.3	Ø.	YES	VHF	8	182.61	1
587	945.Ø	3Ø38.1	1519.1	NO	UHF	32	2568.ØØ	1
588	946.Ø	1416.2	Ø.	YES	VHF	9	172.21	1
589	948.Ø	1659.3	Ø.	YES	UHF	25	766.ØØ	1
59Ø	95Ø.Ø	1468.5	Ø.	YES	UHF	47	6ØØ.ØØ	1
591	95Ø.Ø	1972.1	986.Ø	NO	UHF	52	1Ø82.ØØ	1
592	951.Ø	1Ø64.1	Ø.	YES	UHF	2Ø	315.ØØ	1
593	952.Ø	1341.4	Ø.	YES	VHF	12	154.51	1
594	952.Ø	14Ø3.4	Ø.	YES	VHF	12	169.11	1
595	952.Ø	2256.Ø	1128.Ø	NO	UHF	27	1416.ØØ	1
596	953.Ø	14Ø3.4	Ø.	YES	VHF	9	169.11	1
597	954.Ø	2ØØ6.4	1ØØ3.2	NO	UHF	36	112Ø.ØØ	1
598	954.Ø	1347.5	Ø.	YES	VHF	13	155.91	1
599	955.Ø	1152.9	Ø.	YES	UHF	35	369.8Ø	1
6ØØ	955.Ø	1447.6	Ø.	YES	UHF	41	583.ØØ	1
6Ø1	956.Ø	1122.6	Ø.	YES	UHF	29	35Ø.6Ø	1
6Ø2	956.Ø	2499.4	1249.7	NO	UHF	4Ø	1738.ØØ	1
6Ø3	956.Ø	1387.5	Ø.	YES	VHF	1Ø	165.31	1
6Ø4	956.Ø	2479.2	1239.6	NO	UHF	16	171Ø.ØØ	1
6Ø5	956.Ø	2259.2	1129.6	NO	UHF	28	142Ø.ØØ	1
6Ø6	957.Ø	1458.3	Ø.	YES	VHF	12	182.61	1
6Ø7	957.Ø	1Ø23.6	Ø.	YES	UHF	41	291.5Ø	1
6Ø8	958.Ø	1325.7	Ø.	YES	VHF	13	15Ø.91	1
6Ø9	959.Ø	1366.4	Ø.	YES	VHF	1Ø	16Ø.31	1
61Ø	959.Ø	2ØØ6.4	1ØØ3.2	NO	UHF	23	112Ø.ØØ	1
611	959.Ø	1356.5	Ø.	YES	VHF	12	158.Ø1	1
612	959.Ø	1372.Ø	Ø.	YES	UHF	31	523.7Ø	1
613	959.Ø	2188.9	1Ø94.5	NO	UHF	57	1333.ØØ	1
614	959.Ø	1Ø35.1	Ø.	YES	UHF	35	298.1Ø	1
615	96Ø.Ø	1468.6	Ø.	YES	UHF	14	6ØØ.Ø1	1
616	96Ø.Ø	2898.Ø	1449.Ø	NO	UHF	54	2336.51	1
617	96Ø.Ø	177Ø.4	Ø.	YES	UHF	31	872.Ø1	1
618	963.Ø	2469.9	1234.9	NO	UHF	16	1697.21	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
619	964.Ø	1958.4	979.2	NO	UHF	38	1Ø67.Ø1	1
62Ø	97Ø.Ø	1955.6	977.8	NO	UHF	53	1Ø64.Ø1	1
621	97Ø.Ø	1356.5	Ø.	YES	VHF	11	158.Ø1	1
622	973.Ø	2ØØ6.3	1ØØ3.2	NO	UHF	2Ø	1119.91	1
623	974.Ø	1485.6	Ø.	YES	VHF	12	189.51	1
624	974.Ø	1343.6	Ø.	YES	VHF	7	155.Ø1	1
625	975.Ø	1424.8	Ø.	YES	VHF	1Ø	174.31	1
626	976.Ø	1356.5	Ø.	YES	VHF	8	158.Ø1	1
627	976.Ø	1383.7	Ø.	YES	VHF	11	164.41	1
628	977.Ø	2161.6	1Ø8Ø.8	NO	UHF	16	13ØØ.Ø1	1
629	979.Ø	148Ø.1	Ø.	YES	VHF	12	188.11	1
63Ø	979.Ø	1297.7	Ø.	YES	VHF	13	144.61	1
631	979.Ø	1356.5	Ø.	YES	VHF	12	158.Ø1	1
632	979.Ø	14Ø1.3	Ø.	YES	VHF	8	168.61	1
633	982.Ø	1939.9	Ø.	YES	UHF	19	1Ø47.Ø1	1
634	983.Ø	1356.5	Ø.	YES	VHF	13	158.Ø1	1
635	984.Ø	1381.8	Ø.	YES	UHF	16	531.21	1
636	985.Ø	135Ø.5	Ø.	YES	VHF	8	156.61	1
637	987.Ø	2497.2	1248.6	NO	UHF	47	1735.Ø1	1
638	987.Ø	2814.6	14Ø7.3	NO	UHF	33	22Ø4.Ø1	1
639	987.Ø	2997.7	1498.8	NO	UHF	15	25ØØ.Ø1	1
64Ø	988.Ø	1445.5	Ø.	YES	VHF	8	179.41	1
641	989.Ø	1424.8	Ø.	YES	VHF	8	174.31	1
642	989.Ø	1485.6	Ø.	YES	VHF	7	189.51	1
643	989.Ø	1895.9	Ø.	YES	UHF	61	1ØØØ.Ø1	1
644	989.Ø	145Ø.1	Ø.	YES	UHF	27	585.Ø1	1
645	99Ø.Ø	2Ø99.Ø	1Ø49.5	NO	UHF	3Ø	1225.71	1
646	99Ø.Ø	1353.1	Ø.	YES	UHF	33	5Ø9.41	1
647	993.Ø	1331.Ø	Ø.	YES	VHF	12	152.11	1
648	994.Ø	1895.9	Ø.	YES	UHF	23	1ØØØ.Ø1	1
649	994.Ø	163Ø.4	Ø.	YES	UHF	23	739.51	1
65Ø	995.Ø	1356.5	Ø.	YES	VHF	7	158.Ø1	1
651	996.Ø	1455.5	Ø.	YES	VHF	11	181.91	1
652	997.Ø	2Ø76.8	1Ø38.4	NO	UHF	45	12ØØ.Ø1	1
653	999.Ø	2415.3	12Ø7.7	NO	UHF	17	1623.Ø1	1
654	999.Ø	1486.Ø	Ø.	YES	VHF	7	189.61	1
655	1ØØ2.Ø	1564.5	Ø.	YES	UHF	51	681.Ø1	1
656	1ØØ2.Ø	1463.5	Ø.	YES	VHF	13	183.91	1
657	1ØØ2.Ø	2ØØ6.4	1ØØ3.2	NO	UHF	17	112Ø.Ø1	1
658	1ØØ3.Ø	1356.5	Ø.	YES	VHF	7	158.Ø1	1
659	1ØØ3.Ø	1486.Ø	Ø.	YES	VHF	13	189.61	1
66Ø	1ØØ3.Ø	1469.Ø	Ø.	YES	VHF	9	185.31	1
661	1ØØ3.Ø	1485.6	Ø.	YES	VHF	9	189.51	1
662	1ØØ4.Ø	1776.5	Ø.	YES	UHF	28	878.Ø1	1
663	1ØØ4.Ø	1577.1	Ø.	YES	UHF	31	692.Ø1	1
664	1ØØ5.Ø	2254.4	1127.2	NO	UHF	27	1414.Ø1	1
665	1ØØ8.Ø	217Ø.1	1Ø85.1	NO	UHF	22	131Ø.21	1
666	1ØØ8.Ø	135Ø.5	Ø.	YES	VHF	9	156.61	1
667	1ØØ9.Ø	1262.9	Ø.	YES	UHF	56	443.71	1
668	1ØØ9.Ø	1286.7	Ø.	YES	UHF	26	46Ø.61	1
669	1ØØ9.Ø	14Ø3.4	Ø.	YES	VHF	1Ø	169.11	1
67Ø	1Ø1Ø.Ø	2865.9	1432.9	NO	UHF	17	2285.Ø1	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
671	1Ø1Ø.Ø	1468.6	Ø.	YES	UHF	2Ø	6ØØ.Ø1	1
672	1Ø1Ø.Ø	1219.1	Ø.	YES	VHF	9	127.61	1
673	1Ø13.Ø	2Ø5Ø.7	1Ø25.4	NO	UHF	24	117Ø.Ø1	1
674	1Ø13.Ø	2Ø5Ø.7	1Ø25.4	NO	UHF	5Ø	117Ø.Ø1	1
675	1Ø15.Ø	2Ø54.Ø	1Ø27.Ø	NO	UHF	48	1173.71	1
676	1Ø16.Ø	1369.8	Ø.	YES	VHF	9	161.11	1
677	1Ø17.Ø	2Ø76.8	1Ø38.4	NO	UHF	31	12ØØ.Ø1	1
678	1Ø17.Ø	1595.3	Ø.	YES	UHF	22	7Ø8.Ø1	1
679	1Ø18.Ø	15Ø4.8	Ø.	YES	UHF	18	63Ø.Ø1	1
68Ø	1Ø21.Ø	1386.7	Ø.	YES	UHF	3Ø	535.Ø1	1
681	1Ø21.Ø	1613.2	Ø.	YES	UHF	26	724.Ø1	1
682	1Ø22.Ø	1372.7	Ø.	YES	UHF	21	524.21	1
683	1Ø22.Ø	1158.5	Ø.	YES	UHF	16	373.41	1
684	1Ø22.Ø	1Ø59.2	Ø.	YES	UHF	23	312.11	1
685	1Ø22.Ø	1324.4	Ø.	YES	UHF	15	488.Ø1	1
686	1Ø26.Ø	1172.3	Ø.	YES	VHF	7	118.Ø1	1
687	1Ø26.Ø	1Ø71.5	Ø.	YES	UHF	17	319.41	1
688	1Ø28.Ø	2851.4	1425.7	NO	UHF	16	2262.Ø1	1
689	1Ø28.Ø	116Ø.1	Ø.	YES	UHF	14	374.41	1
69Ø	1Ø29.Ø	2226.4	1113.2	NO	UHF	19	1379.Ø1	1
691	1Ø31.Ø	1485.6	Ø.	YES	VHF	13	189.51	1
692	1Ø31.Ø	1341.4	Ø.	YES	VHF	1Ø	154.51	1
693	1Ø31.Ø	1365.2	Ø.	YES	UHF	33	518.51	1
694	1Ø32.Ø	158Ø.3	Ø.	YES	UHF	16	694.81	1
695	1Ø34.Ø	1647.4	Ø.	YES	UHF	44	755.Ø1	1
696	1Ø35.Ø	1356.5	Ø.	YES	VHF	12	158.Ø1	1
697	1Ø4Ø.Ø	1486.Ø	Ø.	YES	VHF	9	189.61	1
698	1Ø43.Ø	134Ø.6	Ø.	YES	UHF	62	5ØØ.Ø1	1
699	1Ø43.Ø	1523.8	Ø.	YES	UHF	17	646.Ø1	1
7ØØ	1Ø44.Ø	1458.3	Ø.	YES	VHF	1Ø	182.61	1
7Ø1	1Ø45.Ø	2587.7	1293.9	NO	UHF	21	1863.Ø1	1
7Ø2	1Ø46.Ø	1422.7	Ø.	YES	VHF	12	173.81	1
7Ø3	1Ø49.Ø	2681.2	134Ø.6	NO	UHF	24	2ØØØ.Ø1	1
7Ø4	1Ø54.Ø	1262.4	Ø.	YES	UHF	57	443.41	1
7Ø5	1Ø54.Ø	2Ø5Ø.7	Ø.	YES	UHF	22	117Ø.Ø1	1
7Ø6	1Ø56.Ø	1323.5	Ø.	YES	VHF	1Ø	15Ø.41	1
7Ø7	1Ø59.Ø	1486.Ø	Ø.	YES	VHF	7	189.61	1
7Ø8	1Ø59.Ø	1373.7	Ø.	YES	UHF	15	525.Ø1	1
7Ø9	1Ø6Ø.Ø	13Ø4.7	Ø.	YES	UHF	38	473.61	1
71Ø	1Ø6Ø.Ø	1262.4	Ø.	YES	UHF	17	443.41	1
711	1Ø6Ø.Ø	1485.6	Ø.	YES	VHF	7	189.51	1
712	1Ø61.Ø	212Ø.5	Ø.	YES	UHF	18	1251.Ø1	1
713	1Ø61.Ø	2Ø54.2	Ø.	YES	UHF	36	1174.Ø1	1
714	1Ø63.Ø	1279.6	Ø.	YES	VHF	11	14Ø.61	1
715	1Ø63.Ø	1286.6	Ø.	YES	UHF	28	46Ø.51	1
716	1Ø64.Ø	1486.Ø	Ø.	YES	VHF	8	189.61	1
717	1Ø67.Ø	1347.5	Ø.	YES	VHF	7	155.91	1
718	1Ø68.Ø	1486.Ø	Ø.	YES	VHF	13	189.61	1
719	1Ø84.Ø	145Ø.1	Ø.	YES	UHF	34	585.Ø1	1
72Ø	1Ø86.Ø	1485.6	Ø.	YES	VHF	7	189.51	1
721	1Ø88.Ø	1383.7	Ø.	YES	VHF	11	164.41	1
722	1Ø89.Ø	2356.5	1178.3	NO	UHF	3Ø	1545.Ø1	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
723	1Ø9Ø.Ø	1424.8	Ø.	YES	VHF	11	174.31	1
724	1Ø93.Ø	1486.Ø	Ø.	YES	VHF	13	189.61	1
725	1Ø97.Ø	1356.5	Ø.	YES	VHF	8	158.Ø1	1
726	11Ø3.Ø	19Ø5.3	Ø.	YES	UHF	18	1Ø1Ø.Ø1	1
727	11Ø4.Ø	215Ø.Ø	Ø.	YES	UHF	17	1286.Ø1	1
728	11Ø8.Ø	1293.7	Ø.	YES	VHF	13	143.71	1
729	11Ø9.Ø	1474.7	Ø.	YES	UHF	27	6Ø5.Ø1	1
73Ø	1115.Ø	1983.4	Ø.	YES	UHF	3Ø	1Ø94.51	1
731	1119.Ø	154Ø.2	Ø.	YES	UHF	41	66Ø.Ø1	1
732	1124.Ø	145Ø.3	Ø.	YES	UHF	5Ø	585.21	1
733	1127.Ø	1415.7	Ø.	YES	VHF	1Ø	172.11	1
734	1134.Ø	1356.5	Ø.	YES	VHF	12	158.Ø1	1
735	1139.Ø	1337.1	Ø.	YES	UHF	57	497.41	1
736	1142.Ø	134Ø.6	Ø.	YES	UHF	27	5ØØ.Ø1	1
737	1144.Ø	2Ø63.6	Ø.	YES	UHF	18	1184.81	1
738	1144.Ø	1994.7	Ø.	YES	UHF	24	11Ø7.Ø1	1
739	1144.Ø	1453.5	Ø.	YES	VHF	11	181.41	1
74Ø	1145.Ø	1471.Ø	Ø.	YES	UHF	14	6Ø2.Ø1	1
741	115Ø.Ø	2997.7	1498.8	NO	UHF	29	25ØØ.Ø1	1
742	115Ø.Ø	1193.5	Ø.	YES	UHF	27	396.31	1
743	1156.Ø	1333.2	Ø.	YES	UHF	28	494.51	1
744	1159.Ø	2997.7	1498.8	NO	UHF	36	25ØØ.Ø1	1
745	116Ø.Ø	1276.9	Ø.	YES	UHF	21	453.61	1
746	116Ø.Ø	1414.1	Ø.	YES	VHF	13	171.71	1
747	1161.Ø	2383.1	1191.5	NO	UHF	38	158Ø.Ø1	1
748	1161.Ø	2ØØ8.2	Ø.	YES	UHF	56	1122.Ø1	1
749	1161.Ø	1876.3	Ø.	YES	UHF	25	979.41	1
75Ø	1166.Ø	1685.1	Ø.	YES	UHF	21	79Ø.Ø1	1
751	1185.Ø	14Ø1.4	Ø.	YES	UHF	19	546.41	1
752	1185.Ø	1356.5	Ø.	YES	VHF	8	158.Ø1	1
753	1185.Ø	1395.Ø	Ø.	YES	VHF	13	167.11	1
754	1198.Ø	1671.Ø	Ø.	YES	UHF	29	776.81	1
755	1199.Ø	28ØØ.2	14ØØ.1	NO	UHF	35	2181.51	1
756	12ØØ.Ø	2919.9	146Ø.Ø	NO	UHF	28	2372.Ø1	1
757	12Ø2.Ø	1468.6	Ø.	YES	UHF	29	6ØØ.Ø1	1
758	12Ø2.Ø	1938.1	Ø.	YES	UHF	24	1Ø45.Ø1	1
759	1217.Ø	1449.7	Ø.	YES	UHF	34	584.71	1
76Ø	1218.Ø	14Ø5.Ø	Ø.	YES	VHF	9	169.51	1
761	1225.Ø	1485.6	Ø.	YES	VHF	9	189.51	1
762	1234.Ø	2439.Ø	Ø.	YES	UHF	23	1655.Ø1	1
763	124Ø.Ø	1265.3	Ø.	YES	UHF	31	445.41	1
764	1244.Ø	142Ø.3	Ø.	YES	VHF	1Ø	173.21	1
765	1249.Ø	1356.5	Ø.	YES	VHF	13	158.Ø1	1
766	1256.Ø	1379.9	Ø.	YES	VHF	1Ø	163.51	1
767	1264.Ø	13Ø2.4	Ø.	YES	UHF	18	471.91	1
768	1274.Ø	2681.2	134Ø.6	NO	UHF	17	2ØØØ.Ø1	1
769	1277.Ø	1344.4	Ø.	YES	VHF	13	155.21	1
77Ø	1279.Ø	1696.8	Ø.	YES	UHF	38	8Ø1.Ø1	1
771	1282.Ø	1485.6	Ø.	YES	VHF	1Ø	189.51	1
772	1292.5	1356.5	Ø.	YES	VHF	7	158.Ø1	1
773	1295.Ø	134Ø.6	Ø.	YES	UHF	15	5ØØ.Ø1	1
774	13Ø4.Ø	1545.7	Ø.	YES	UHF	27	664.71	1

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
775	13Ø5.Ø	1356.5	Ø.	YES	VHF	11	158.Ø1	1
776	1319.Ø	27Ø3.2	1351.6	NO	UHF	25	2Ø33.Ø1	1
777	1328.Ø	1467.2	Ø.	YES	UHF	41	598.91	1
778	1364.Ø	2123.9	Ø.	YES	UHF	36	1255.Ø1	1
779	1388.Ø	1433.3	Ø.	YES	VHF	8	176.41	1
78Ø	1393.Ø	1423.1	Ø.	YES	VHF	13	173.91	1
781	1394.Ø	1485.2	Ø.	YES	VHF	13	189.41	1
782	1397.Ø	2332.Ø	Ø.	YES	UHF	24	1513.Ø1	1
783	14Ø3.Ø	1423.1	Ø.	YES	VHF	11	173.91	1
784	14Ø5.Ø	142Ø.3	Ø.	YES	VHF	9	173.21	1
785	141Ø.Ø	2997.7	1498.8	NO	UHF	38	25ØØ.Ø1	1
786	1416.Ø	2817.2	Ø.	YES	UHF	44	22Ø8.Ø1	1
787	1416.Ø	2322.Ø	Ø.	YES	UHF	32	15ØØ.Ø1	1
788	1418.Ø	1647.4	Ø.	YES	UHF	2Ø	755.Ø1	1
789	1433.Ø	2997.7	1498.8	NO	UHF	39	25ØØ.Ø1	1
79Ø	1434.Ø	1486.Ø	Ø.	YES	VHF	12	189.61	1
791	1434.Ø	2Ø26.9	Ø.	YES	UHF	44	1143.Ø1	1
792	1438.Ø	1714.4	Ø.	YES	UHF	22	817.71	1
793	1446.Ø	2Ø36.6	Ø.	YES	UHF	35	1154.Ø1	1
794	1449.Ø	196Ø.2	Ø.	YES	UHF	23	1Ø69.Ø1	1
795	1449.Ø	1453.5	Ø.	YES	VHF	7	181.41	1
796	1456.Ø	1486.Ø	Ø.	YES	VHF	1Ø	189.61	1
797	1463.Ø	2512.3	Ø.	YES	UHF	36	1756.Ø1	1
798	1472.Ø	2997.7	1498.8	NO	UHF	66	25ØØ.Ø1	1
799	1479.Ø	148Ø.1	Ø.	YES	VHF	1Ø	188.11	1
8ØØ	148Ø.Ø	2836.7	Ø.	YES	UHF	39	2238.81	1
8Ø1	148Ø.Ø	2665.Ø	Ø.	YES	UHF	34	1976.Ø1	1
8Ø2	1489.Ø	2844.5	Ø.	YES	UHF	27	2251.Ø1	1
8Ø3	1489.Ø	187Ø.1	Ø.	YES	UHF	33	973.Ø1	1
8Ø4	1489.Ø	2967.5	Ø.	YES	UHF	21	245Ø.Ø1	1
8Ø5	1493.Ø	1962.Ø	Ø.	YES	UHF	42	1Ø71.Ø1	1
8Ø6	1493.Ø	2Ø47.2	Ø.	YES	UHF	29	1166.Ø1	1
8Ø7	1498.Ø	2997.7	1498.8	NO	UHF	22	25ØØ.Ø1	1
8Ø8	1499.Ø	153Ø.9	Ø.	YES	UHF	19	652.Ø1	1
8Ø9	15Ø9.Ø	2Ø14.5	Ø.	YES	UHF	47	1129.Ø1	1
81Ø	152Ø.Ø	1747.9	Ø.	YES	UHF	26	85Ø.Ø1	1
811	1525.Ø	1765.9	Ø.	YES	UHF	24	867.61	1
812	1533.Ø	2997.7	Ø.	YES	UHF	23	25ØØ.Ø1	1
813	1556.Ø	1872.Ø	Ø.	YES	UHF	43	975.Ø1	1
814	1581.Ø	1617.1	Ø.	YES	UHF	27	727.51	1
815	1667.Ø	2997.7	Ø.	YES	UHF	15	25ØØ.Ø1	1
816	1669.Ø	2997.7	Ø.	YES	UHF	6Ø	25ØØ.Ø1	1
817	1689.Ø	2Ø76.8	Ø.	YES	UHF	41	12ØØ.Ø1	1
818	1755.Ø	2997.7	Ø.	YES	UHF	32	25ØØ.Ø1	1
819	193Ø.Ø	2997.7	Ø.	YES	UHF	26	25ØØ.Ø1	1
82Ø	3Ø.Ø	214.Ø	84.1	NO	VHF	1Ø	39.34	1Ø
821	3Ø.Ø	36.4	Ø.	YES	VHF	11	1.14	1Ø
822	3Ø.Ø	339.2	133.3	NO	VHF	11	98.8Ø	1Ø
823	3Ø.Ø	298.8	149.4	NO	UHF	51	248.4Ø	1Ø
824	3Ø.Ø	356.1	178.1	NO	UHF	53	352.8Ø	1Ø
825	3Ø.Ø	98.6	38.7	NO	VHF	3	8.34	1Ø
826	3Ø.Ø	72.2	Ø.	YES	VHF	3	4.48	1Ø

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
827	3Ø.Ø	144.1	56.6	NO	VHF	7	17.82	1Ø
828	3Ø.Ø	63.6	Ø.	YES	VHF	13	3.47	1Ø
829	3Ø.Ø	93.Ø	36.5	NO	VHF	13	7.42	1Ø
83Ø	3Ø.Ø	73.2	Ø.	YES	VHF	13	4.6Ø	1Ø
831	3Ø.Ø	234.2	92.Ø	NO	VHF	1Ø	47.ØØ	1Ø
832	3Ø.Ø	149.7	58.8	NO	VHF	12	19.24	1Ø
833	3Ø.Ø	148.1	58.2	NO	VHF	1Ø	18.84	1Ø
834	3Ø.Ø	259.9	1Ø2.1	NO	VHF	9	58.ØØ	1Ø
835	4Ø.Ø	296.3	116.4	NO	VHF	11	75.4Ø	1Ø
836	42.Ø	46.2	Ø.	YES	VHF	1Ø	1.84	1Ø
837	42.Ø	1Ø9.8	43.1	NO	VHF	4	1Ø.36	1Ø
838	49.Ø	189.1	74.3	NO	VHF	2	3Ø.72	1Ø
839	5Ø.Ø	263.Ø	1Ø3.3	NO	VHF	8	59.4Ø	1Ø
84Ø	5Ø.Ø	335.4	131.8	NO	VHF	8	96.6Ø	1Ø
841	56.Ø	282.2	11Ø.9	NO	VHF	7	68.4Ø	1Ø
842	56.Ø	329.7	164.9	NO	UHF	33	3Ø2.5Ø	1Ø
843	59.Ø	96.5	Ø.	YES	VHF	2	8.ØØ	1Ø
844	66.Ø	161.7	Ø.	YES	VHF	3	22.44	1Ø
845	67.Ø	283.3	111.3	NO	VHF	12	68.9Ø	1Ø
846	69.Ø	258.8	1Ø1.7	NO	VHF	12	57.5Ø	1Ø
847	7Ø.Ø	2Ø5.1	8Ø.6	NO	VHF	8	36.12	1Ø
848	71.Ø	281.4	11Ø.5	NO	VHF	8	68.ØØ	1Ø
849	71.Ø	4Ø2.8	158.2	NO	VHF	12	139.3Ø	1Ø
85Ø	73.Ø	139.4	Ø.	YES	VHF	5	16.68	1Ø
851	73.Ø	228.Ø	89.6	NO	VHF	13	44.64	1Ø
852	74.Ø	41Ø.1	161.1	NO	VHF	12	144.4Ø	1Ø
853	76.Ø	469.Ø	184.3	NO	VHF	7	188.9Ø	1Ø
854	79.Ø	5Ø8.7	254.4	NO	UHF	57	72Ø.ØØ	1Ø
855	81.Ø	177.4	Ø.	YES	VHF	9	27.Ø2	1Ø
856	81.Ø	144.2	Ø.	YES	VHF	4	17.86	1Ø
857	83.Ø	443.9	174.4	NO	VHF	13	169.2Ø	1Ø
858	84.Ø	289.4	113.7	NO	VHF	1Ø	71.9Ø	1Ø
859	84.Ø	29Ø.8	145.4	NO	UHF	36	235.2Ø	1Ø
86Ø	85.Ø	426.8	167.7	NO	VHF	1Ø	156.4Ø	1Ø
861	89.Ø	264.3	1Ø3.8	NO	VHF	5	6Ø.ØØ	1Ø
862	9Ø.Ø	248.8	124.4	NO	UHF	42	172.2Ø	1Ø
863	9Ø.Ø	225.3	Ø.	YES	VHF	5	43.58	1Ø
864	9Ø.Ø	193.7	Ø.	YES	VHF	5	32.22	1Ø
865	91.Ø	1ØØ.9	Ø.	YES	UHF	2Ø	28.32	1Ø
866	92.Ø	169.9	Ø.	YES	VHF	4	24.78	1Ø
867	95.Ø	138.6	Ø.	YES	VHF	11	16.5Ø	1Ø
868	97.Ø	335.6	167.8	NO	UHF	47	313.4Ø	1Ø
869	97.Ø	418.3	2Ø9.1	NO	UHF	54	486.8Ø	1Ø
87Ø	99.Ø	7Ø8.6	354.3	NO	UHF	51	1397.ØØ	1Ø
871	1ØØ.Ø	195.7	Ø.	YES	VHF	2	32.9Ø	1Ø
872	1Ø1.Ø	155.6	Ø.	YES	VHF	2	2Ø.78	1Ø
873	1Ø2.Ø	481.5	24Ø.7	NO	UHF	2Ø	645.ØØ	1Ø
874	1Ø3.Ø	448.6	224.3	NO	UHF	3Ø	56Ø.ØØ	1Ø
875	1Ø3.Ø	183.1	Ø.	YES	VHF	4	28.8Ø	1Ø
876	1Ø4.Ø	698.8	349.4	NO	UHF	18	1358.7Ø	1Ø
877	1Ø6.Ø	261.Ø	Ø.	YES	VHF	12	58.5Ø	1Ø
878	1Ø6.Ø	422.8	166.1	NO	VHF	1Ø	153.5Ø	1Ø

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
879	1Ø6.Ø	463.9	231.9	NO	UHF	29	598.7Ø	1Ø
88Ø	1Ø7.Ø	212.1	Ø.	YES	VHF	13	38.64	1Ø
881	1Ø7.Ø	449.9	176.7	NO	VHF	8	173.8Ø	1Ø
882	1Ø9.Ø	634.5	317.2	NO	UHF	31	1120.ØØ	1Ø
883	11Ø.Ø	469.8	184.5	NO	VHF	8	189.5Ø	1Ø
884	112.Ø	349.5	174.8	NO	UHF	21	339.9Ø	1Ø
885	112.Ø	813.2	4Ø6.6	NO	UHF	4Ø	184Ø.ØØ	1Ø
886	113.Ø	533.5	266.8	NO	UHF	22	792.ØØ	1Ø
887	117.Ø	241.7	12Ø.8	NO	UHF	5Ø	162.5Ø	1Ø
888	117.Ø	2Ø9.8	Ø.	YES	VHF	13	37.8Ø	1Ø
889	119.Ø	3Ø7.7	153.8	NO	UHF	23	263.4Ø	1Ø
89Ø	12Ø.Ø	657.6	328.8	NO	UHF	21	12Ø3.ØØ	1Ø
891	121.Ø	399.3	199.7	NO	UHF	15	443.6Ø	1Ø
892	123.Ø	32Ø.3	16Ø.2	NO	UHF	32	285.5Ø	1Ø
893	125.Ø	212.6	Ø.	YES	VHF	6	38.82	1Ø
894	126.Ø	318.9	159.5	NO	UHF	29	283.ØØ	1Ø
895	129.Ø	336.4	132.2	NO	VHF	9	97.2Ø	1Ø
896	132.Ø	263.5	Ø.	YES	VHF	13	59.6Ø	1Ø
897	134.Ø	317.9	Ø.	YES	VHF	7	86.8Ø	1Ø
898	135.Ø	34Ø.7	17Ø.4	NO	UHF	35	323.ØØ	1Ø
899	135.Ø	174.Ø	Ø.	YES	VHF	6	26.ØØ	1Ø
9ØØ	135.Ø	2Ø5.1	Ø.	YES	VHF	1Ø	36.12	1Ø
9Ø1	138.Ø	332.9	166.5	NO	UHF	21	3Ø8.4Ø	1Ø
9Ø2	14Ø.Ø	589.2	294.6	NO	UHF	58	966.ØØ	1Ø
9Ø3	14Ø.Ø	3Ø3.3	Ø.	YES	VHF	12	79.ØØ	1Ø
9Ø4	14Ø.Ø	1Ø12.7	5Ø6.3	NO	UHF	39	2853.ØØ	1Ø
9Ø5	141.Ø	527.8	263.9	NO	UHF	6Ø	775.ØØ	1Ø
9Ø6	142.Ø	144.Ø	Ø.	YES	VHF	6	17.8Ø	1Ø
9Ø7	143.Ø	616.1	3Ø8.Ø	NO	UHF	23	1Ø56.ØØ	1Ø
9Ø8	144.Ø	72Ø.7	36Ø.3	NO	UHF	38	1445.ØØ	1Ø
9Ø9	149.Ø	264.3	Ø.	YES	VHF	4	6Ø.ØØ	1Ø
91Ø	15Ø.Ø	377.Ø	188.5	NO	UHF	34	395.4Ø	1Ø
911	151.Ø	251.7	Ø.	YES	VHF	3	54.4Ø	1Ø
912	151.Ø	173.8	Ø.	YES	VHF	3	25.94	1Ø
913	153.Ø	35Ø.7	Ø.	YES	VHF	7	1Ø5.6Ø	1Ø
914	155.Ø	449.4	224.7	NO	UHF	16	561.8Ø	1Ø
915	157.Ø	412.8	162.2	NO	VHF	9	146.3Ø	1Ø
916	158.Ø	386.1	Ø.	YES	VHF	11	128.ØØ	1Ø
917	159.Ø	684.5	342.2	NO	UHF	52	13Ø3.4Ø	1Ø
918	16Ø.Ø	367.3	183.7	NO	UHF	4Ø	375.4Ø	1Ø
919	16Ø.Ø	2Ø5.1	Ø.	YES	VHF	6	36.12	1Ø
92Ø	16Ø.Ø	253.1	Ø.	YES	VHF	6	55.ØØ	1Ø
921	161.Ø	5Ø3.5	251.7	NO	UHF	14	7Ø5.3Ø	1Ø
922	162.Ø	7Ø1.1	35Ø.5	NO	UHF	36	1367.5Ø	1Ø
923	163.Ø	247.3	Ø.	YES	VHF	6	52.5Ø	1Ø
924	167.Ø	317.2	Ø.	YES	VHF	11	86.4Ø	1Ø
925	167.Ø	277.Ø	Ø.	YES	VHF	9	65.9Ø	1Ø
926	167.Ø	332.4	Ø.	YES	VHF	7	94.9Ø	1Ø
927	168.Ø	328.6	Ø.	YES	UHF	42	3ØØ.4Ø	1Ø
928	17Ø.Ø	316.8	Ø.	YES	VHF	13	86.2Ø	1Ø
929	172.Ø	679.6	339.8	NO	UHF	22	1285.ØØ	1Ø
93Ø	173.Ø	56Ø.3	28Ø.1	NO	UHF	23	873.3Ø	1Ø

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
931	174.Ø	322.7	Ø.	YES	VHF	12	89.4Ø	1Ø
932	178.Ø	4Ø7.8	Ø.	YES	VHF	8	142.8Ø	1Ø
933	178.Ø	253.1	Ø.	YES	VHF	3	55.ØØ	1Ø
934	18Ø.Ø	268.7	Ø.	YES	VHF	7	62.ØØ	1Ø
935	182.Ø	429.Ø	Ø.	YES	VHF	1Ø	158.ØØ	1Ø
936	182.Ø	539.2	269.6	NO	UHF	46	8Ø9.ØØ	1Ø
937	184.Ø	446.1	Ø.	YES	VHF	7	17Ø.9Ø	1Ø
938	185.Ø	52Ø.9	26Ø.5	NO	UHF	19	755.ØØ	1Ø
939	185.Ø	449.9	Ø.	YES	VHF	9	173.8Ø	1Ø
94Ø	187.Ø	24Ø.2	Ø.	YES	VHF	7	49.54	1Ø
941	187.5	345.5	Ø.	YES	UHF	25	332.1Ø	1Ø
942	188.Ø	226.2	Ø.	YES	UHF	15	142.3Ø	1Ø
943	19Ø.Ø	6Ø5.5	3Ø2.7	NO	UHF	29	1Ø2Ø.ØØ	1Ø
944	191.Ø	343.7	Ø.	YES	UHF	15	328.7Ø	1Ø
945	194.Ø	449.1	Ø.	YES	VHF	1Ø	173.2Ø	1Ø
946	195.Ø	476.4	238.2	NO	UHF	14	631.4Ø	1Ø
947	195.Ø	394.3	197.2	NO	UHF	4Ø	432.6Ø	1Ø
948	198.Ø	449.4	Ø.	YES	VHF	1Ø	173.4Ø	1Ø
949	198.Ø	429.Ø	Ø.	YES	VHF	13	158.ØØ	1Ø
95Ø	199.Ø	264.3	Ø.	YES	VHF	3	6Ø.ØØ	1Ø
951	2ØØ.Ø	353.1	Ø.	YES	UHF	47	346.8Ø	1Ø
952	2Ø1.Ø	469.9	Ø.	YES	VHF	8	189.6Ø	1Ø
953	2Ø3.Ø	391.3	Ø.	YES	VHF	7	131.5Ø	1Ø
954	2Ø3.Ø	447.2	Ø.	YES	VHF	9	171.7Ø	1Ø
955	2Ø5.Ø	492.9	246.5	NO	UHF	18	676.ØØ	1Ø
956	2Ø5.Ø	357.9	Ø.	YES	VHF	1Ø	11Ø.ØØ	1Ø
957	2Ø7.Ø	36Ø.3	Ø.	YES	VHF	1Ø	111.5Ø	1Ø
958	2Ø7.Ø	258.5	Ø.	YES	VHF	3	57.4Ø	1Ø
959	2Ø8.Ø	429.Ø	Ø.	YES	VHF	9	158.ØØ	1Ø
96Ø	2Ø8.Ø	283.6	Ø.	YES	UHF	19	223.7Ø	1Ø
961	211.Ø	947.9	474.Ø	NO	UHF	2Ø	25ØØ.ØØ	1Ø
962	212.Ø	755.1	377.6	NO	UHF	26	1586.4Ø	1Ø
963	214.Ø	437.6	Ø.	YES	VHF	12	164.4Ø	1Ø
964	214.Ø	433.7	Ø.	YES	VHF	8	161.5Ø	1Ø
965	214.Ø	469.8	Ø.	YES	VHF	8	189.5Ø	1Ø
966	214.Ø	7Ø3.Ø	351.5	NO	UHF	5Ø	1375.ØØ	1Ø
967	215.Ø	679.6	339.8	NO	UHF	14	1285.ØØ	1Ø
968	215.Ø	453.2	Ø.	YES	VHF	7	176.4Ø	1Ø
969	219.Ø	735.6	367.8	NO	UHF	26	15Ø5.6Ø	1Ø
97Ø	219.Ø	419.1	Ø.	YES	VHF	13	15Ø.8Ø	1Ø
971	222.Ø	753.8	376.9	NO	UHF	47	1581.ØØ	1Ø
972	225.Ø	492.9	246.4	NO	UHF	17	675.8Ø	1Ø
973	225.Ø	361.1	Ø.	YES	UHF	15	362.8Ø	1Ø
974	226.Ø	362.Ø	Ø.	YES	VHF	13	112.5Ø	1Ø
975	226.Ø	416.Ø	Ø.	YES	VHF	7	148.6Ø	1Ø
976	23Ø.Ø	266.3	Ø.	YES	VHF	1Ø	6Ø.9Ø	1Ø
977	231.Ø	721.9	361.Ø	NO	UHF	17	145Ø.ØØ	1Ø
978	232.Ø	737.8	368.9	NO	UHF	3Ø	1514.4Ø	1Ø
979	234.Ø	241.3	Ø.	YES	VHF	2	5Ø.ØØ	1Ø
98Ø	235.Ø	266.8	Ø.	YES	UHF	67	198.1Ø	1Ø
981	242.Ø	641.5	32Ø.8	NO	UHF	33	1145.ØØ	1Ø
982	242.Ø	438.5	Ø.	YES	UHF	15	535.ØØ	1Ø

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
983	248.Ø	947.9	474.Ø	NO	UHF	17	25ØØ.ØØ	1Ø
984	249.Ø	448.7	Ø.	YES	VHF	11	172.9Ø	1Ø
985	256.Ø	388.3	Ø.	YES	UHF	45	419.4Ø	1Ø
986	261.Ø	481.5	Ø.	YES	UHF	29	645.ØØ	1Ø
987	269.Ø	325.2	Ø.	YES	VHF	13	9Ø.8Ø	1Ø
988	269.Ø	336.4	Ø.	YES	UHF	22	314.8Ø	1Ø
989	276.Ø	451.3	Ø.	YES	VHF	8	174.9Ø	1Ø
99Ø	276.Ø	439.9	Ø.	YES	VHF	1Ø	166.2Ø	1Ø
991	28Ø.Ø	449.1	Ø.	YES	VHF	12	173.2Ø	1Ø
992	281.Ø	533.9	Ø.	YES	UHF	24	793.ØØ	1Ø
993	281.Ø	4Ø4.5	Ø.	YES	VHF	11	14Ø.5Ø	1Ø
994	282.Ø	891.9	445.9	NO	UHF	48	2213.ØØ	1Ø
995	284.Ø	7Ø4.Ø	352.Ø	NO	UHF	21	1379.ØØ	1Ø
996	29Ø.Ø	336.8	Ø.	YES	UHF	18	315.5Ø	1Ø
997	29Ø.5	45Ø.5	Ø.	YES	VHF	13	174.3Ø	1Ø
998	298.5	521.6	Ø.	YES	UHF	33	757.ØØ	1Ø
999	299.Ø	426.8	Ø.	YES	VHF	12	156.4Ø	1Ø
1ØØØ	299.Ø	368.8	Ø.	YES	UHF	25	378.4Ø	1Ø
1ØØ1	3ØØ.Ø	443.8	Ø.	YES	VHF	9	169.1Ø	1Ø
1ØØ2	3Ø3.Ø	356.Ø	Ø.	YES	UHF	61	352.6Ø	1Ø
1ØØ3	3Ø5.Ø	47Ø.2	Ø.	YES	UHF	21	615.ØØ	1Ø
1ØØ4	3Ø5.Ø	476.2	Ø.	YES	UHF	31	631.ØØ	1Ø
1ØØ5	3Ø6.Ø	589.2	Ø.	YES	UHF	68	966.ØØ	1Ø
1ØØ6	3Ø6.Ø	866.5	433.3	NO	UHF	19	2Ø89.1Ø	1Ø
1ØØ7	31Ø.Ø	356.Ø	Ø.	YES	UHF	52	352.6Ø	1Ø
1ØØ8	311.Ø	319.7	Ø.	YES	UHF	19	284.3Ø	1Ø
1ØØ9	315.Ø	662.1	331.1	NO	UHF	35	1219.7Ø	1Ø
1Ø1Ø	32Ø.Ø	688.3	344.1	NO	UHF	53	1318.ØØ	1Ø
1Ø11	323.Ø	369.9	Ø.	YES	UHF	26	38Ø.6Ø	1Ø
1Ø12	323.Ø	662.2	331.1	NO	UHF	28	122Ø.ØØ	1Ø
1Ø13	328.Ø	36Ø.7	Ø.	YES	UHF	24	362.ØØ	1Ø
1Ø14	333.Ø	429.Ø	Ø.	YES	VHF	13	158.ØØ	1Ø
1Ø15	334.Ø	358.1	Ø.	YES	UHF	49	356.8Ø	1Ø
1Ø16	35Ø.Ø	461.1	Ø.	YES	VHF	8	182.6Ø	1Ø
1Ø17	359.Ø	611.4	Ø.	YES	UHF	22	1Ø4Ø.ØØ	1Ø
1Ø18	36Ø.Ø	538.2	Ø.	YES	UHF	43	8Ø6.ØØ	1Ø
1Ø19	361.Ø	51Ø.9	Ø.	YES	UHF	58	726.1Ø	1Ø
1Ø2Ø	363.Ø	377.8	Ø.	YES	UHF	66	397.ØØ	1Ø
1Ø21	366.Ø	469.8	Ø.	YES	VHF	11	189.5Ø	1Ø
1Ø22	37Ø.Ø	53Ø.3	Ø.	YES	UHF	31	782.5Ø	1Ø
1Ø23	38Ø.Ø	466.3	Ø.	YES	VHF	9	186.7Ø	1Ø
1Ø24	387.Ø	415.5	Ø.	YES	UHF	2Ø	48Ø.4Ø	1Ø
1Ø25	4Ø7.Ø	547.7	Ø.	YES	UHF	4Ø	834.6Ø	1Ø
1Ø26	4Ø8.Ø	465.1	Ø.	YES	UHF	15	6Ø1.8Ø	1Ø
1Ø27	414.Ø	886.4	443.2	NO	UHF	67	2186.ØØ	1Ø
1Ø28	42Ø.Ø	562.2	Ø.	YES	UHF	5Ø	879.2Ø	1Ø
1Ø29	423.Ø	5Ø9.4	Ø.	YES	UHF	66	722.ØØ	1Ø
1Ø3Ø	425.Ø	429.Ø	Ø.	YES	VHF	7	158.ØØ	1Ø
1Ø31	429.Ø	469.8	Ø.	YES	VHF	11	189.5Ø	1Ø
1Ø32	43Ø.Ø	469.8	Ø.	YES	VHF	13	189.5Ø	1Ø
1Ø33	43Ø.Ø	436.4	Ø.	YES	VHF	1Ø	163.5Ø	1Ø
1Ø34	43Ø.Ø	469.9	Ø.	YES	VHF	11	189.6Ø	1Ø

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1035	448.0	475.9	0.	YES	UHF	33	630.00	10
1036	456.0	481.5	0.	YES	UHF	19	645.00	10
1037	459.0	736.5	0.	YES	UHF	24	1509.00	10
1038	460.0	679.6	0.	YES	UHF	27	1285.00	10
1039	460.0	702.8	0.	YES	UHF	16	1374.00	10
1040	460.0	464.4	0.	YES	UHF	21	600.00	10
1041	469.0	663.6	0.	YES	UHF	50	1225.00	10
1042	478.0	730.3	0.	YES	UHF	24	1484.00	10
1043	490.0	513.6	0.	YES	UHF	15	734.00	10
1044	490.0	865.7	0.	YES	UHF	22	2085.00	10
1045	508.0	606.7	0.	YES	UHF	31	1024.00	10
1046	520.0	579.1	0.	YES	UHF	22	933.00	10
1047	565.0	718.9	0.	YES	UHF	25	1438.00	10
1048	569.0	656.3	0.	YES	UHF	27	1198.20	10
1049	578.0	793.6	0.	YES	UHF	22	1752.40	10
1050	613.0	670.0	0.	YES	UHF	53	1249.00	10
1051	616.0	888.2	0.	YES	UHF	19	2195.00	10
1052	616.0	642.9	0.	YES	UHF	50	1150.00	10
1053	666.0	947.9	0.	YES	UHF	45	2500.00	10
1054	694.0	703.5	0.	YES	UHF	26	1377.00	10
1055	707.0	804.3	0.	YES	UHF	25	1799.60	10
1056	728.0	947.9	0.	YES	UHF	45	2500.00	10
1057	769.0	947.1	0.	YES	UHF	32	2495.60	10
1058	769.0	846.2	0.	YES	UHF	20	1992.00	10
1059	789.0	888.2	0.	YES	UHF	22	2195.00	10
1060	809.0	868.4	0.	YES	UHF	28	2098.00	10
1061	812.0	926.7	0.	YES	UHF	22	2389.00	10
1062	835.0	852.1	0.	YES	UHF	27	2020.00	10
1063	854.0	947.9	0.	YES	UHF	54	2500.00	10
1064	927.0	947.9	0.	YES	UHF	64	2500.00	10
1065	945.0	960.7	0.	YES	UHF	32	2568.00	10
1066	30.0	69.7	0.	YES	VHF	3	8.34	20
1067	30.0	65.7	0.	YES	VHF	13	7.42	20
1068	30.0	211.3	105.6	NO	UHF	51	248.40	20
1069	30.0	51.8	0.	YES	VHF	13	4.60	20
1070	30.0	183.8	72.2	NO	VHF	9	58.00	20
1071	30.0	165.6	65.0	NO	VHF	10	47.08	20
1072	30.0	51.1	0.	YES	VHF	3	4.48	20
1073	30.0	105.8	41.6	NO	VHF	12	19.24	20
1074	30.0	101.9	40.0	NO	VHF	7	17.82	20
1075	30.0	104.7	41.1	NO	VHF	10	18.84	20
1076	30.0	45.0	0.	YES	VHF	13	3.47	20
1077	30.0	239.9	94.2	NO	VHF	11	98.80	20
1078	30.0	251.8	125.9	NO	UHF	53	352.80	20
1079	30.0	151.4	59.5	NO	VHF	10	39.34	20
1080	40.0	209.5	82.3	NO	VHF	11	75.40	20
1081	42.0	77.7	0.	YES	VHF	4	10.36	20
1082	49.0	133.7	52.5	NO	VHF	2	30.72	20
1083	50.0	186.0	73.1	NO	VHF	8	59.40	20
1084	50.0	237.2	93.2	NO	VHF	8	96.60	20
1085	56.0	199.6	78.4	NO	VHF	7	68.40	20
1086	56.0	233.2	116.6	NO	UHF	33	302.50	20

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1Ø87	59.Ø	68.3	Ø.	YES	VHF	2	8.ØØ	2Ø
1Ø88	66.Ø	114.3	Ø.	YES	VHF	3	22.44	2Ø
1Ø89	67.Ø	2ØØ.3	78.7	NO	VHF	12	68.9Ø	2Ø
1Ø9Ø	69.Ø	183.Ø	71.9	NO	VHF	12	57.5Ø	2Ø
1Ø91	7Ø.Ø	145.Ø	Ø.	YES	VHF	8	36.12	2Ø
1Ø92	71.Ø	284.8	111.9	NO	VHF	12	139.3Ø	2Ø
1Ø93	71.Ø	199.Ø	78.2	NO	VHF	8	68.ØØ	2Ø
1Ø94	73.Ø	161.2	Ø.	YES	VHF	13	44.64	2Ø
1Ø95	73.Ø	98.6	Ø.	YES	VHF	5	16.68	2Ø
1Ø96	74.Ø	29Ø.Ø	113.9	NO	VHF	12	144.4Ø	2Ø
1Ø97	76.Ø	331.7	13Ø.3	NO	VHF	7	188.9Ø	2Ø
1Ø98	79.Ø	359.7	179.9	NO	UHF	57	72Ø.ØØ	2Ø
1Ø99	81.Ø	125.4	Ø.	YES	VHF	9	27.Ø2	2Ø
11ØØ	81.Ø	1Ø2.Ø	Ø.	YES	VHF	4	17.86	2Ø
11Ø1	83.Ø	313.9	123.3	NO	VHF	13	169.2Ø	2Ø
11Ø2	84.Ø	2Ø5.6	1Ø2.8	NO	UHF	36	235.2Ø	2Ø
11Ø3	84.Ø	2Ø4.6	Ø.	YES	VHF	1Ø	71.9Ø	2Ø
11Ø4	85.Ø	3Ø1.8	118.5	NO	VHF	1Ø	156.4Ø	2Ø
11Ø5	89.Ø	186.9	Ø.	YES	VHF	5	6Ø.ØØ	2Ø
11Ø6	9Ø.Ø	137.Ø	Ø.	YES	VHF	5	32.22	2Ø
11Ø7	9Ø.Ø	175.9	Ø.	YES	UHF	42	172.2Ø	2Ø
11Ø8	9Ø.Ø	159.3	Ø.	YES	VHF	5	43.58	2Ø
11Ø9	92.Ø	12Ø.1	Ø.	YES	VHF	4	24.78	2Ø
111Ø	95.Ø	98.Ø	Ø.	YES	VHF	11	16.5Ø	2Ø
1111	97.Ø	295.8	147.9	NO	UHF	54	486.8Ø	2Ø
1112	97.Ø	237.3	118.7	NO	UHF	47	313.4Ø	2Ø
1113	99.Ø	5Ø1.1	25Ø.5	NO	UHF	51	1397.ØØ	2Ø
1114	1ØØ.Ø	138.4	Ø.	YES	VHF	2	32.9Ø	2Ø
1115	1Ø1.Ø	11Ø.Ø	Ø.	YES	VHF	2	2Ø.78	2Ø
1116	1Ø2.Ø	34Ø.5	17Ø.2	NO	UHF	2Ø	645.ØØ	2Ø
1117	1Ø3.Ø	317.2	158.6	NO	UHF	3Ø	56Ø.ØØ	2Ø
1118	1Ø3.Ø	129.5	Ø.	YES	VHF	4	28.8Ø	2Ø
1119	1Ø4.Ø	494.1	247.1	NO	UHF	18	1358.7Ø	2Ø
112Ø	1Ø6.Ø	328.Ø	164.Ø	NO	UHF	29	598.7Ø	2Ø
1121	1Ø6.Ø	184.6	Ø.	YES	VHF	12	58.5Ø	2Ø
1122	1Ø6.Ø	299.Ø	117.4	NO	VHF	1Ø	153.5Ø	2Ø
1123	1Ø7.Ø	15Ø.Ø	Ø.	YES	VHF	13	38.64	2Ø
1124	1Ø7.Ø	318.1	125.Ø	NO	VHF	8	173.8Ø	2Ø
1125	1Ø9.Ø	448.6	224.3	NO	UHF	31	112Ø.ØØ	2Ø
1126	11Ø.Ø	332.2	13Ø.5	NO	VHF	8	189.5Ø	2Ø
1127	112.Ø	247.2	123.6	NO	UHF	21	339.9Ø	2Ø
1128	112.Ø	575.Ø	287.5	NO	UHF	4Ø	184Ø.ØØ	2Ø
1129	113.Ø	377.3	188.6	NO	UHF	22	792.ØØ	2Ø
113Ø	117.Ø	17Ø.9	Ø.	YES	UHF	5Ø	162.5Ø	2Ø
1131	117.Ø	148.4	Ø.	YES	VHF	13	37.8Ø	2Ø
1132	119.Ø	217.6	Ø.	YES	UHF	23	263.4Ø	2Ø
1133	12Ø.Ø	465.Ø	232.5	NO	UHF	21	12Ø3.ØØ	2Ø
1134	121.Ø	282.4	141.2	NO	UHF	15	443.6Ø	2Ø
1135	123.Ø	226.5	Ø.	YES	UHF	32	285.5Ø	2Ø
1136	125.Ø	15Ø.3	Ø.	YES	VHF	6	38.82	2Ø
1137	126.Ø	225.5	Ø.	YES	UHF	29	283.ØØ	2Ø
1138	129.Ø	237.9	Ø.	YES	VHF	9	97.2Ø	2Ø

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1139	132.Ø	186.3	Ø.	YES	VHF	13	59.6Ø	2Ø
114Ø	134.Ø	224.8	Ø.	YES	VHF	7	86.8Ø	2Ø
1141	135.Ø	24Ø.9	Ø.	YES	UHF	35	323.ØØ	2Ø
1142	135.Ø	145.Ø	Ø.	YES	VHF	1Ø	36.12	2Ø
1143	138.Ø	235.4	Ø.	YES	UHF	21	3Ø8.4Ø	2Ø
1144	14Ø.Ø	214.5	Ø.	YES	VHF	12	79.ØØ	2Ø
1145	14Ø.Ø	716.1	358.Ø	NO	UHF	39	2853.ØØ	2Ø
1146	14Ø.Ø	416.7	2Ø8.3	NO	UHF	58	966.ØØ	2Ø
1147	141.Ø	373.2	186.6	NO	UHF	6Ø	775.ØØ	2Ø
1148	143.Ø	435.6	217.8	NO	UHF	23	1Ø56.ØØ	2Ø
1149	144.Ø	5Ø9.6	254.8	NO	UHF	38	1445.ØØ	2Ø
115Ø	149.Ø	186.9	Ø.	YES	VHF	4	6Ø.ØØ	2Ø
1151	15Ø.Ø	266.6	Ø.	YES	UHF	34	395.4Ø	2Ø
1152	151.Ø	178.Ø	Ø.	YES	VHF	3	54.4Ø	2Ø
1153	153.Ø	248.Ø	Ø.	YES	VHF	7	1Ø5.6Ø	2Ø
1154	155.Ø	317.8	158.9	NO	UHF	16	561.8Ø	2Ø
1155	157.Ø	291.9	Ø.	YES	VHF	9	146.3Ø	2Ø
1156	158.Ø	273.Ø	Ø.	YES	VHF	11	128.ØØ	2Ø
1157	159.Ø	484.Ø	242.Ø	NO	UHF	52	13Ø3.4Ø	2Ø
1158	16Ø.Ø	179.Ø	Ø.	YES	VHF	6	55.ØØ	2Ø
1159	16Ø.Ø	259.7	Ø.	YES	UHF	4Ø	375.4Ø	2Ø
116Ø	161.Ø	356.Ø	178.Ø	NO	UHF	14	7Ø5.3Ø	2Ø
1161	162.Ø	495.7	247.9	NO	UHF	36	1367.5Ø	2Ø
1162	163.Ø	174.8	Ø.	YES	VHF	6	52.5Ø	2Ø
1163	167.Ø	224.3	Ø.	YES	VHF	11	86.4Ø	2Ø
1164	167.Ø	195.9	Ø.	YES	VHF	9	65.9Ø	2Ø
1165	167.Ø	235.1	Ø.	YES	VHF	7	94.9Ø	2Ø
1166	168.Ø	232.4	Ø.	YES	UHF	42	3ØØ.4Ø	2Ø
1167	17Ø.Ø	224.Ø	Ø.	YES	VHF	13	86.2Ø	2Ø
1168	172.Ø	48Ø.6	24Ø.3	NO	UHF	22	1285.ØØ	2Ø
1169	173.Ø	396.2	198.1	NO	UHF	23	873.3Ø	2Ø
117Ø	174.Ø	228.2	Ø.	YES	VHF	12	89.4Ø	2Ø
1171	178.Ø	288.4	Ø.	YES	VHF	8	142.8Ø	2Ø
1172	178.Ø	179.Ø	Ø.	YES	VHF	3	55.ØØ	2Ø
1173	18Ø.Ø	19Ø.Ø	Ø.	YES	VHF	7	62.ØØ	2Ø
1174	182.Ø	381.3	19Ø.7	NO	UHF	46	8Ø9.ØØ	2Ø
1175	182.Ø	3Ø3.3	Ø.	YES	VHF	1Ø	158.ØØ	2Ø
1176	184.Ø	315.5	Ø.	YES	VHF	7	17Ø.9Ø	2Ø
1177	185.Ø	368.4	Ø.	YES	UHF	19	755.ØØ	2Ø
1178	185.Ø	318.1	Ø.	YES	VHF	9	173.8Ø	2Ø
1179	187.5	244.3	Ø.	YES	UHF	25	332.1Ø	2Ø
118Ø	19Ø.Ø	428.2	214.1	NO	UHF	29	1Ø2Ø.ØØ	2Ø
1181	191.Ø	243.Ø	Ø.	YES	UHF	15	328.7Ø	2Ø
1182	194.Ø	317.6	Ø.	YES	VHF	1Ø	173.2Ø	2Ø
1183	195.Ø	336.9	Ø.	YES	UHF	14	631.4Ø	2Ø
1184	195.Ø	278.8	Ø.	YES	UHF	4Ø	432.6Ø	2Ø
1185	198.Ø	317.8	Ø.	YES	VHF	1Ø	173.4Ø	2Ø
1186	198.Ø	3Ø3.3	Ø.	YES	VHF	13	158.ØØ	2Ø
1187	2ØØ.Ø	249.7	Ø.	YES	UHF	47	346.8Ø	2Ø
1188	2Ø1.Ø	332.3	Ø.	YES	VHF	8	189.6Ø	2Ø
1189	2Ø3.Ø	316.2	Ø.	YES	VHF	9	171.7Ø	2Ø
119Ø	2Ø3.Ø	276.7	Ø.	YES	VHF	7	131.5Ø	2Ø

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1191	205.0	348.6	0.	YES	UHF	18	676.00	20
1192	205.0	253.1	0.	YES	VHF	10	110.00	20
1193	207.0	254.8	0.	YES	VHF	10	111.50	20
1194	208.0	303.3	0.	YES	VHF	9	158.00	20
1195	211.0	670.3	335.1	NO	UHF	20	2500.00	20
1196	212.0	534.0	267.0	NO	UHF	26	1586.40	20
1197	214.0	497.1	248.6	NO	UHF	50	1375.00	20
1198	214.0	306.7	0.	YES	VHF	8	161.50	20
1199	214.0	332.2	0.	YES	VHF	8	189.50	20
1200	214.0	309.4	0.	YES	VHF	12	164.40	20
1201	215.0	320.5	0.	YES	VHF	7	176.40	20
1202	215.0	480.6	240.3	NO	UHF	14	1285.00	20
1203	219.0	296.3	0.	YES	VHF	13	150.80	20
1204	219.0	520.2	260.1	NO	UHF	26	1505.60	20
1205	222.0	533.0	266.5	NO	UHF	47	1581.00	20
1206	225.0	255.3	0.	YES	UHF	15	362.80	20
1207	225.0	348.5	0.	YES	UHF	17	675.80	20
1208	226.0	294.2	0.	YES	VHF	7	148.60	20
1209	226.0	255.9	0.	YES	VHF	13	112.50	20
1210	231.0	510.5	255.2	NO	UHF	17	1450.00	20
1211	232.0	521.7	260.8	NO	UHF	30	1514.40	20
1212	242.0	310.1	0.	YES	UHF	15	535.00	20
1213	242.0	453.6	0.	YES	UHF	33	1145.00	20
1214	248.0	670.3	335.1	NO	UHF	17	2500.00	20
1215	249.0	317.3	0.	YES	VHF	11	172.90	20
1216	256.0	274.5	0.	YES	UHF	45	419.40	20
1217	261.0	340.5	0.	YES	UHF	29	645.00	20
1218	276.0	311.1	0.	YES	VHF	10	166.20	20
1219	276.0	319.1	0.	YES	VHF	8	174.90	20
1220	280.0	317.6	0.	YES	VHF	12	173.20	20
1221	281.0	286.0	0.	YES	VHF	11	140.50	20
1222	281.0	377.5	0.	YES	UHF	24	793.00	20
1223	282.0	630.6	315.3	NO	UHF	48	2213.00	20
1224	284.0	497.8	0.	YES	UHF	21	1379.00	20
1225	290.5	318.6	0.	YES	VHF	13	174.30	20
1226	298.5	368.8	0.	YES	UHF	33	757.00	20
1227	299.0	301.8	0.	YES	VHF	12	156.40	20
1228	300.0	313.8	0.	YES	VHF	9	169.10	20
1229	305.0	336.8	0.	YES	UHF	31	631.00	20
1230	305.0	332.5	0.	YES	UHF	21	615.00	20
1231	306.0	416.7	0.	YES	UHF	68	966.00	20
1232	306.0	612.7	306.4	NO	UHF	19	2089.10	20
1233	315.0	468.2	0.	YES	UHF	35	1219.70	20
1234	320.0	486.7	0.	YES	UHF	53	1318.00	20
1235	323.0	468.2	0.	YES	UHF	28	1220.00	20
1236	359.0	432.3	0.	YES	UHF	22	1040.00	20
1237	360.0	380.6	0.	YES	UHF	43	806.00	20
1238	361.0	361.2	0.	YES	UHF	58	726.10	20
1239	370.0	375.0	0.	YES	UHF	31	782.50	20
1240	414.0	626.8	0.	YES	UHF	67	2186.00	20
1241	459.0	520.8	0.	YES	UHF	24	1509.00	20
1242	460.0	496.9	0.	YES	UHF	16	1374.00	20

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1243	460.0	480.6	0.	YES	UHF	27	1285.00	20
1244	469.0	469.2	0.	YES	UHF	50	1225.00	20
1245	478.0	516.4	0.	YES	UHF	24	1484.00	20
1246	490.0	612.1	0.	YES	UHF	22	2085.00	20
1247	616.0	628.1	0.	YES	UHF	19	2195.00	20
1248	666.0	670.3	0.	YES	UHF	45	2500.00	20
1249	30.0	66.9	0.	YES	VHF	12	19.24	50
1250	30.0	44.1	0.	YES	VHF	3	8.34	50
1251	30.0	32.3	0.	YES	VHF	3	4.48	50
1252	30.0	41.6	0.	YES	VHF	13	7.42	50
1253	30.0	64.4	0.	YES	VHF	7	17.82	50
1254	30.0	95.7	37.6	NO	VHF	10	39.34	50
1255	30.0	66.2	0.	YES	VHF	10	18.84	50
1256	30.0	32.7	0.	YES	VHF	13	4.60	50
1257	30.0	151.7	59.6	NO	VHF	11	98.80	50
1258	30.0	133.6	66.8	NO	UHF	51	248.40	50
1259	30.0	159.3	79.6	NO	UHF	53	352.80	50
1260	30.0	116.2	45.7	NO	VHF	9	58.00	50
1261	30.0	104.7	41.1	NO	VHF	10	47.08	50
1262	40.0	132.5	52.1	NO	VHF	11	75.40	50
1263	42.0	49.1	0.	YES	VHF	4	10.36	50
1264	49.0	84.6	0.	YES	VHF	2	30.72	50
1265	50.0	150.0	58.9	NO	VHF	8	96.60	50
1266	50.0	117.6	0.	YES	VHF	8	59.40	50
1267	56.0	147.5	73.7	NO	UHF	33	302.50	50
1268	56.0	126.2	0.	YES	VHF	7	68.40	50
1269	66.0	72.3	0.	YES	VHF	3	22.44	50
1270	67.0	126.7	0.	YES	VHF	12	68.90	50
1271	69.0	115.7	0.	YES	VHF	12	57.50	50
1272	70.0	91.7	0.	YES	VHF	8	36.12	50
1273	71.0	125.8	0.	YES	VHF	8	68.00	50
1274	71.0	180.1	0.	YES	VHF	12	139.30	50
1275	73.0	102.0	0.	YES	VHF	13	44.64	50
1276	74.0	183.4	0.	YES	VHF	12	144.40	50
1277	76.0	209.8	82.4	NO	VHF	7	188.90	50
1278	79.0	227.5	113.8	NO	UHF	57	720.00	50
1279	83.0	198.5	0.	YES	VHF	13	169.20	50
1280	84.0	130.0	0.	YES	UHF	36	235.20	50
1281	84.0	129.4	0.	YES	VHF	10	71.90	50
1282	85.0	190.9	0.	YES	VHF	10	156.40	50
1283	89.0	118.2	0.	YES	VHF	5	60.00	50
1284	90.0	111.3	0.	YES	UHF	42	172.20	50
1285	90.0	100.7	0.	YES	VHF	5	43.58	50
1286	97.0	187.1	0.	YES	UHF	54	486.80	50
1287	97.0	150.1	0.	YES	UHF	47	313.40	50
1288	99.0	316.9	158.5	NO	UHF	51	1397.00	50
1289	102.0	215.3	107.7	NO	UHF	20	645.00	50
1290	103.0	200.6	0.	YES	UHF	30	560.00	50
1291	104.0	312.5	156.3	NO	UHF	18	1358.70	50
1292	106.0	189.1	0.	YES	VHF	10	153.50	50
1293	106.0	207.5	0.	YES	UHF	29	598.70	50
1294	106.0	116.7	0.	YES	VHF	12	58.50	50

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1295	107.0	201.2	0.	YES	VHF	8	173.80	50
1296	109.0	283.7	141.9	NO	UHF	31	1120.00	50
1297	110.0	210.1	0.	YES	VHF	8	189.50	50
1298	112.0	363.7	181.8	NO	UHF	40	1840.00	50
1299	112.0	156.3	0.	YES	UHF	21	339.90	50
1300	113.0	238.6	119.3	NO	UHF	22	792.00	50
1301	119.0	137.6	0.	YES	UHF	23	263.40	50
1302	120.0	294.1	147.0	NO	UHF	21	1203.00	50
1303	121.0	178.6	0.	YES	UHF	15	443.60	50
1304	123.0	143.3	0.	YES	UHF	32	285.50	50
1305	126.0	142.6	0.	YES	UHF	29	283.00	50
1306	129.0	150.5	0.	YES	VHF	9	97.20	50
1307	134.0	142.2	0.	YES	VHF	7	86.80	50
1308	135.0	152.4	0.	YES	UHF	35	323.00	50
1309	138.0	148.9	0.	YES	UHF	21	308.40	50
1310	140.0	452.9	226.4	NO	UHF	39	2853.00	50
1311	140.0	263.5	0.	YES	UHF	58	966.00	50
1312	141.0	236.0	0.	YES	UHF	60	775.00	50
1313	143.0	275.5	0.	YES	UHF	23	1056.00	50
1314	144.0	322.3	161.1	NO	UHF	38	1445.00	50
1315	150.0	168.6	0.	YES	UHF	34	395.40	50
1316	153.0	156.8	0.	YES	VHF	7	105.60	50
1317	155.0	201.0	0.	YES	UHF	16	561.80	50
1318	157.0	184.6	0.	YES	VHF	9	146.30	50
1319	158.0	172.7	0.	YES	VHF	11	128.00	50
1320	159.0	306.1	0.	YES	UHF	52	1303.40	50
1321	160.0	164.3	0.	YES	UHF	40	375.40	50
1322	161.0	225.2	0.	YES	UHF	14	705.30	50
1323	162.0	313.5	0.	YES	UHF	36	1367.50	50
1324	172.0	303.9	0.	YES	UHF	22	1285.00	50
1325	173.0	250.6	0.	YES	UHF	23	873.30	50
1326	178.0	182.4	0.	YES	VHF	8	142.80	50
1327	182.0	191.8	0.	YES	VHF	10	158.00	50
1328	182.0	241.2	0.	YES	UHF	46	809.00	50
1329	184.0	199.5	0.	YES	VHF	7	170.90	50
1330	185.0	233.0	0.	YES	UHF	19	755.00	50
1331	185.0	201.2	0.	YES	VHF	9	173.80	50
1332	190.0	270.8	0.	YES	UHF	29	1020.00	50
1333	194.0	200.9	0.	YES	VHF	10	173.20	50
1334	195.0	213.0	0.	YES	UHF	14	631.40	50
1335	198.0	201.0	0.	YES	VHF	10	173.40	50
1336	201.0	210.1	0.	YES	VHF	8	189.60	50
1337	205.0	220.4	0.	YES	UHF	18	676.00	50
1338	211.0	423.9	212.0	NO	UHF	20	2500.00	50
1339	212.0	337.7	0.	YES	UHF	26	1586.40	50
1340	214.0	314.4	0.	YES	UHF	50	1375.00	50
1341	215.0	303.9	0.	YES	UHF	14	1285.00	50
1342	219.0	329.0	0.	YES	UHF	26	1505.60	50
1343	222.0	337.1	0.	YES	UHF	47	1581.00	50
1344	231.0	322.9	0.	YES	UHF	17	1450.00	50
1345	232.0	329.9	0.	YES	UHF	30	1514.40	50
1346	242.0	286.9	0.	YES	UHF	33	1145.00	50

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1347	248.Ø	423.9	Ø.	YES	UHF	17	25ØØ.ØØ	5Ø
1348	282.Ø	398.9	Ø.	YES	UHF	48	2213.ØØ	5Ø
1349	284.Ø	314.9	Ø.	YES	UHF	21	1379.ØØ	5Ø
135Ø	3Ø6.Ø	387.5	Ø.	YES	UHF	19	2Ø89.1Ø	5Ø
1351	3Ø.Ø	52.6	Ø.	YES	VHF	7	17.82	75
1352	3Ø.Ø	33.9	Ø.	YES	VHF	13	7.42	75
1353	3Ø.Ø	1Ø9.1	54.6	NO	UHF	51	248.4Ø	75
1354	3Ø.Ø	13Ø.Ø	65.Ø	NO	UHF	53	352.8Ø	75
1355	3Ø.Ø	94.9	37.3	NO	VHF	9	58.ØØ	75
1356	3Ø.Ø	123.9	48.7	NO	VHF	11	98.8Ø	75
1357	3Ø.Ø	54.7	Ø.	YES	VHF	12	19.24	75
1358	3Ø.Ø	85.5	33.6	NO	VHF	1Ø	47.Ø8	75
1359	3Ø.Ø	36.Ø	Ø.	YES	VHF	3	8.34	75
136Ø	3Ø.Ø	78.2	3Ø.7	NO	VHF	1Ø	39.34	75
1361	3Ø.Ø	54.1	Ø.	YES	VHF	1Ø	18.84	75
1362	4Ø.Ø	1Ø8.2	42.5	NO	VHF	11	75.4Ø	75
1363	49.Ø	69.1	Ø.	YES	VHF	2	3Ø.72	75
1364	5Ø.Ø	122.5	Ø.	YES	VHF	8	96.6Ø	75
1365	5Ø.Ø	96.Ø	Ø.	YES	VHF	8	59.4Ø	75
1366	56.Ø	1Ø3.1	Ø.	YES	VHF	7	68.4Ø	75
1367	56.Ø	12Ø.4	6Ø.2	NO	UHF	33	3Ø2.5Ø	75
1368	67.Ø	1Ø3.4	Ø.	YES	VHF	12	68.9Ø	75
1369	69.Ø	94.5	Ø.	YES	VHF	12	57.5Ø	75
137Ø	7Ø.Ø	74.9	Ø.	YES	VHF	8	36.12	75
1371	71.Ø	147.1	Ø.	YES	VHF	12	139.3Ø	75
1372	71.Ø	1Ø2.8	Ø.	YES	VHF	8	68.ØØ	75
1373	73.Ø	83.3	Ø.	YES	VHF	13	44.64	75
1374	74.Ø	149.7	Ø.	YES	VHF	12	144.4Ø	75
1375	76.Ø	171.3	Ø.	YES	VHF	7	188.9Ø	75
1376	79.Ø	185.8	92.9	NO	UHF	57	72Ø.ØØ	75
1377	83.Ø	162.1	Ø.	YES	VHF	13	169.2Ø	75
1378	84.Ø	1Ø6.2	Ø.	YES	UHF	36	235.2Ø	75
1379	84.Ø	1Ø5.7	Ø.	YES	VHF	1Ø	71.9Ø	75
138Ø	85.Ø	155.8	Ø.	YES	VHF	1Ø	156.4Ø	75
1381	89.Ø	96.5	Ø.	YES	VHF	5	6Ø.ØØ	75
1382	9Ø.Ø	9Ø.8	Ø.	YES	UHF	42	172.2Ø	75
1383	97.Ø	152.7	Ø.	YES	UHF	54	486.8Ø	75
1384	97.Ø	122.6	Ø.	YES	UHF	47	313.4Ø	75
1385	99.Ø	258.7	129.4	NO	UHF	51	1397.ØØ	75
1386	1Ø2.Ø	175.8	Ø.	YES	UHF	2Ø	645.ØØ	75
1387	1Ø3.Ø	163.8	Ø.	YES	UHF	3Ø	56Ø.ØØ	75
1388	1Ø4.Ø	255.2	127.6	NO	UHF	18	1358.7Ø	75
1389	1Ø6.Ø	169.4	Ø.	YES	UHF	29	598.7Ø	75
139Ø	1Ø6.Ø	154.4	Ø.	YES	VHF	1Ø	153.5Ø	75
1391	1Ø7.Ø	164.3	Ø.	YES	VHF	8	173.8Ø	75
1392	1Ø9.Ø	231.7	115.8	NO	UHF	31	112Ø.ØØ	75
1393	11Ø.Ø	171.5	Ø.	YES	VHF	8	189.5Ø	75
1394	112.Ø	127.6	Ø.	YES	UHF	21	339.9Ø	75
1395	112.Ø	297.Ø	148.5	NO	UHF	4Ø	184Ø.ØØ	75
1396	113.Ø	194.8	Ø.	YES	UHF	22	792.ØØ	75
1397	12Ø.Ø	24Ø.1	12Ø.1	NO	UHF	21	12Ø3.ØØ	75
1398	121.Ø	145.8	Ø.	YES	UHF	15	443.6Ø	75

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1399	140.0	369.8	184.9	NO	UHF	39	2853.00	75
1400	140.0	215.2	0.	YES	UHF	58	966.00	75
1401	141.0	192.7	0.	YES	UHF	60	775.00	75
1402	143.0	225.0	0.	YES	UHF	23	1056.00	75
1403	144.0	263.2	0.	YES	UHF	38	1445.00	75
1404	155.0	164.1	0.	YES	UHF	16	561.80	75
1405	159.0	249.9	0.	YES	UHF	52	1303.40	75
1406	161.0	183.9	0.	YES	UHF	14	705.30	75
1407	162.0	256.0	0.	YES	UHF	36	1367.50	75
1408	172.0	248.2	0.	YES	UHF	22	1285.00	75
1409	173.0	204.6	0.	YES	UHF	23	873.30	75
1410	182.0	196.9	0.	YES	UHF	46	809.00	75
1411	185.0	190.2	0.	YES	UHF	19	755.00	75
1412	190.0	221.1	0.	YES	UHF	29	1020.00	75
1413	211.0	346.1	0.	YES	UHF	20	2500.00	75
1414	212.0	275.7	0.	YES	UHF	26	1586.40	75
1415	214.0	256.7	0.	YES	UHF	50	1375.00	75
1416	215.0	248.2	0.	YES	UHF	14	1285.00	75
1417	219.0	268.6	0.	YES	UHF	26	1505.60	75
1418	222.0	275.3	0.	YES	UHF	47	1581.00	75
1419	231.0	263.6	0.	YES	UHF	17	1450.00	75
1420	232.0	269.4	0.	YES	UHF	30	1514.40	75
1421	248.0	346.1	0.	YES	UHF	17	2500.00	75
1422	282.0	325.7	0.	YES	UHF	48	2213.00	75
1423	306.0	316.4	0.	YES	UHF	19	2089.10	75
1424	30.0	45.6	0.	YES	VHF	7	17.82	100
1425	30.0	47.3	0.	YES	VHF	12	19.24	100
1426	30.0	82.2	32.3	NO	VHF	9	58.00	100
1427	30.0	74.0	0.	YES	VHF	10	47.08	100
1428	30.0	31.2	0.	YES	VHF	3	8.34	100
1429	30.0	107.3	42.1	NO	VHF	11	98.80	100
1430	30.0	67.7	0.	YES	VHF	10	39.34	100
1431	30.0	46.8	0.	YES	VHF	10	18.84	100
1432	30.0	94.5	47.2	NO	UHF	51	248.40	100
1433	30.0	112.6	56.3	NO	UHF	53	352.80	100
1434	40.0	93.7	0.	YES	VHF	11	75.40	100
1435	49.0	59.8	0.	YES	VHF	2	30.72	100
1436	50.0	83.2	0.	YES	VHF	8	59.40	100
1437	50.0	106.1	0.	YES	VHF	8	96.60	100
1438	56.0	89.3	0.	YES	VHF	7	68.40	100
1439	56.0	104.3	0.	YES	UHF	33	302.50	100
1440	67.0	89.6	0.	YES	VHF	12	68.90	100
1441	69.0	81.8	0.	YES	VHF	12	57.50	100
1442	71.0	89.0	0.	YES	VHF	8	68.00	100
1443	71.0	127.4	0.	YES	VHF	12	139.30	100
1444	74.0	129.7	0.	YES	VHF	12	144.40	100
1445	76.0	148.3	0.	YES	VHF	7	188.90	100
1446	79.0	160.9	80.4	NO	UHF	57	720.00	100
1447	83.0	140.4	0.	YES	VHF	13	169.20	100
1448	84.0	91.9	0.	YES	UHF	36	235.20	100
1449	84.0	91.5	0.	YES	VHF	10	71.90	100
1450	85.0	135.0	0.	YES	VHF	10	156.40	100

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1451	97.Ø	132.3	Ø.	YES	UHF	54	486.8Ø	1ØØ
1452	97.Ø	1Ø6.1	Ø.	YES	UHF	47	313.4Ø	1ØØ
1453	99.Ø	224.1	112.Ø	NO	UHF	51	1397.ØØ	1ØØ
1454	1Ø2.Ø	152.3	Ø.	YES	UHF	2Ø	645.ØØ	1ØØ
1455	1Ø3.Ø	141.9	Ø.	YES	UHF	3Ø	56Ø.ØØ	1ØØ
1456	1Ø4.Ø	221.Ø	11Ø.5	NO	UHF	18	1358.7Ø	1ØØ
1457	1Ø6.Ø	133.7	Ø.	YES	VHF	1Ø	153.5Ø	1ØØ
1458	1Ø6.Ø	146.7	Ø.	YES	UHF	29	598.7Ø	1ØØ
1459	1Ø7.Ø	142.3	Ø.	YES	VHF	8	173.8Ø	1ØØ
146Ø	1Ø9.Ø	2ØØ.6	Ø.	YES	UHF	31	1128.ØØ	1ØØ
1461	11Ø.Ø	148.6	Ø.	YES	VHF	8	189.5Ø	1ØØ
1462	112.Ø	257.2	128.6	NO	UHF	4Ø	184Ø.ØØ	1ØØ
1463	113.Ø	168.7	Ø.	YES	UHF	22	792.ØØ	1ØØ
1464	12Ø.Ø	2Ø7.9	Ø.	YES	UHF	21	12Ø3.ØØ	1ØØ
1465	121.Ø	126.3	Ø.	YES	UHF	15	443.6Ø	1ØØ
1466	14Ø.Ø	186.3	Ø.	YES	UHF	58	966.ØØ	1ØØ
1467	14Ø.Ø	32Ø.2	16Ø.1	NO	UHF	39	2853.ØØ	1ØØ
1468	141.Ø	166.9	Ø.	YES	UHF	6Ø	775.ØØ	1ØØ
1469	143.Ø	194.8	Ø.	YES	UHF	23	1Ø56.ØØ	1ØØ
147Ø	144.Ø	227.9	Ø.	YES	UHF	38	1445.ØØ	1ØØ
1471	159.Ø	216.4	Ø.	YES	UHF	52	13Ø3.4Ø	1ØØ
1472	162.Ø	221.7	Ø.	YES	UHF	36	1367.5Ø	1ØØ
1473	172.Ø	214.9	Ø.	YES	UHF	22	1285.ØØ	1ØØ
1474	173.Ø	177.2	Ø.	YES	UHF	23	873.3Ø	1ØØ
1475	19Ø.Ø	191.5	Ø.	YES	UHF	29	1Ø2Ø.ØØ	1ØØ
1476	211.Ø	299.8	Ø.	YES	UHF	2Ø	25ØØ.ØØ	1ØØ
1477	212.Ø	238.8	Ø.	YES	UHF	26	1586.4Ø	1ØØ
1478	214.Ø	222.3	Ø.	YES	UHF	5Ø	1375.ØØ	1ØØ
1479	219.Ø	232.6	Ø.	YES	UHF	26	15Ø5.6Ø	1ØØ
148Ø	222.Ø	238.4	Ø.	YES	UHF	47	1581.ØØ	1ØØ
1481	232.Ø	233.3	Ø.	YES	UHF	3Ø	1514.4Ø	1ØØ
1482	248.Ø	299.8	Ø.	YES	UHF	17	25ØØ.ØØ	1ØØ
1483	282.Ø	282.Ø	Ø.	YES	UHF	48	2213.ØØ	1ØØ
1484	3Ø.Ø	75.8	Ø.	YES	VHF	11	98.8Ø	2ØØ
1485	3Ø.Ø	52.4	Ø.	YES	VHF	1Ø	47.Ø8	2ØØ
1486	3Ø.Ø	33.5	Ø.	YES	VHF	12	19.24	2ØØ
1487	3Ø.Ø	58.1	Ø.	YES	VHF	9	58.ØØ	2ØØ
1488	3Ø.Ø	47.9	Ø.	YES	VHF	1Ø	39.34	2ØØ
1489	3Ø.Ø	32.2	Ø.	YES	VHF	7	17.82	2ØØ
149Ø	3Ø.Ø	66.8	33.4	NO	UHF	51	248.4Ø	2ØØ
1491	3Ø.Ø	79.6	39.8	NO	UHF	53	352.8Ø	2ØØ
1492	3Ø.Ø	33.1	Ø.	YES	VHF	1Ø	18.84	2ØØ
1493	4Ø.Ø	66.3	Ø.	YES	VHF	11	75.4Ø	2ØØ
1494	5Ø.Ø	75.Ø	Ø.	YES	VHF	8	96.6Ø	2ØØ
1495	5Ø.Ø	58.8	Ø.	YES	VHF	8	59.4Ø	2ØØ
1496	56.Ø	73.7	Ø.	YES	UHF	33	3Ø2.5Ø	2ØØ
1497	56.Ø	63.1	Ø.	YES	VHF	7	68.4Ø	2ØØ
1498	71.Ø	9Ø.1	Ø.	YES	VHF	12	139.3Ø	2ØØ
1499	74.Ø	91.7	Ø.	YES	VHF	12	144.4Ø	2ØØ
15ØØ	76.Ø	1Ø4.9	Ø.	YES	VHF	7	188.9Ø	2ØØ
15Ø1	79.Ø	113.8	Ø.	YES	UHF	57	72Ø.ØØ	2ØØ
15Ø2	83.Ø	99.3	Ø.	YES	VHF	13	169.2Ø	2ØØ

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1503	85.0	95.4	0.	YES	VHF	10	156.40	200
1504	99.0	158.5	0.	YES	UHF	51	1397.00	200
1505	102.0	107.7	0.	YES	UHF	20	645.00	200
1506	104.0	156.3	0.	YES	UHF	18	1358.70	200
1507	109.0	141.9	0.	YES	UHF	31	1120.00	200
1508	112.0	181.8	0.	YES	UHF	40	1840.00	200
1509	113.0	119.3	0.	YES	UHF	22	792.00	200
1510	120.0	147.0	0.	YES	UHF	21	1203.00	200
1511	140.0	226.4	0.	YES	UHF	39	2853.00	200
1512	144.0	161.1	0.	YES	UHF	38	1445.00	200
1513	211.0	212.0	0.	YES	UHF	20	2500.00	200
1514	30.0	54.6	0.	YES	UHF	51	248.40	300
1515	30.0	61.9	0.	YES	VHF	11	98.80	300
1516	30.0	47.5	0.	YES	VHF	9	58.00	300
1517	30.0	42.8	0.	YES	VHF	10	47.08	300
1518	30.0	39.1	0.	YES	VHF	10	39.34	300
1519	30.0	65.0	32.5	NO	UHF	53	352.80	300
1520	40.0	54.1	0.	YES	VHF	11	75.40	300
1521	50.0	61.2	0.	YES	VHF	8	96.60	300
1522	56.0	60.2	0.	YES	UHF	33	302.50	300
1523	71.0	73.5	0.	YES	VHF	12	139.30	300
1524	74.0	74.9	0.	YES	VHF	12	144.40	300
1525	76.0	85.6	0.	YES	VHF	7	188.90	300
1526	79.0	92.9	0.	YES	UHF	57	720.00	300
1527	99.0	129.4	0.	YES	UHF	51	1397.00	300
1528	104.0	127.6	0.	YES	UHF	18	1358.70	300
1529	109.0	115.8	0.	YES	UHF	31	1120.00	300
1530	112.0	148.5	0.	YES	UHF	40	1840.00	300
1531	120.0	120.1	0.	YES	UHF	21	1203.00	300
1532	140.0	184.9	0.	YES	UHF	39	2853.00	300
1533	30.0	37.0	0.	YES	VHF	10	47.08	400
1534	30.0	53.6	0.	YES	VHF	11	98.80	400
1535	30.0	33.8	0.	YES	VHF	10	39.34	400
1536	30.0	47.2	0.	YES	UHF	51	248.40	400
1537	30.0	56.3	0.	YES	UHF	53	352.80	400
1538	30.0	41.1	0.	YES	VHF	9	58.00	400
1539	40.0	46.9	0.	YES	VHF	11	75.40	400
1540	50.0	53.0	0.	YES	VHF	8	96.60	400
1541	79.0	80.4	0.	YES	UHF	57	720.00	400
1542	99.0	112.0	0.	YES	UHF	51	1397.00	400
1543	104.0	110.5	0.	YES	UHF	18	1358.70	400
1544	112.0	128.6	0.	YES	UHF	40	1840.00	400
1545	140.0	160.1	0.	YES	UHF	39	2853.00	400
1546	30.0	48.0	0.	YES	VHF	11	98.80	500
1547	30.0	30.3	0.	YES	VHF	10	39.34	500
1548	30.0	42.3	0.	YES	UHF	51	248.40	500
1549	30.0	33.1	0.	YES	VHF	10	47.08	500
1550	30.0	50.4	0.	YES	UHF	53	352.80	500
1551	30.0	36.8	0.	YES	VHF	9	58.00	500
1552	40.0	41.9	0.	YES	VHF	11	75.40	500
1553	99.0	100.2	0.	YES	UHF	51	1397.00	500
1554	112.0	115.0	0.	YES	UHF	40	1840.00	500

TABLE C-1 CONTINUED

SN	CTH	EATH	NATH	NACT	TYPE	CHNL	ERP	PD
1555	140.0	143.2	0.	YES	UHF	39	2853.00	500
1556	30.0	38.6	0.	YES	UHF	51	248.40	600
1557	30.0	30.2	0.	YES	VHF	10	47.08	600
1558	30.0	43.8	0.	YES	VHF	11	98.80	600
1559	30.0	33.6	0.	YES	VHF	9	58.00	600
1560	30.0	46.0	0.	YES	UHF	53	352.80	600
1561	30.0	35.7	0.	YES	UHF	51	248.40	700
1562	30.0	40.5	0.	YES	VHF	11	98.80	700
1563	30.0	42.6	0.	YES	UHF	53	352.80	700
1564	30.0	31.1	0.	YES	VHF	9	58.00	700
1565	30.0	33.4	0.	YES	UHF	51	248.40	800
1566	30.0	37.9	0.	YES	VHF	11	98.80	800
1567	30.0	39.8	0.	YES	UHF	53	352.80	800
1568	30.0	31.5	0.	YES	UHF	51	248.40	900
1569	30.0	35.8	0.	YES	VHF	11	98.80	900
1570	30.0	37.5	0.	YES	UHF	53	352.80	900
1571	30.0	33.9	0.	YES	VHF	11	98.80	1000
1572	30.0	35.6	0.	YES	UHF	53	352.80	1000

60 stations that require some modification to comply with the 100 $\mu W/cm^2$ guideline. A minimum compliance cost analysis is conducted for these 60 stations by considering three compliance alternatives:

1) taller tower, old antenna;
2) existing tower, new antenna; and
3) taller tower, new antenna.

In the following discussion, the first TV station at the 100 $\mu W/cm^2$ level will be examined in detail and then this example will be carried forward to all stations requiring a compliance measure if the guidance were to be established at this power density level. Television station number 1424 is the first in the list that is estimated by the EPA to require a compliance measure at 100 $\mu W/cm^2$. That is, its signal exceeds 100 $\mu W/cm^2$ at ground level. The analysis begins by selecting the least costly of three compliance measures. Column 3 gives the EATH as 45.6 ft; on the basis of the tower cost increments given in Table C-2, the medium-level cost of this measure, CEAT, is $76,000. The entry in Column 4 is 0, which means that a new antenna would achieve compliance without any elevation at all; so no tower would be required for compliance (a tower would still be required for broadcasting purposes). Column 5 indicates that a new antenna on the existing tower would achieve compliance; this, together with the new tower height in Column 4, provides the basis for estimating the cost of the second alternative measure, new antenna on the existing tower, CNAET. A new VHF-TV (Column 6) antenna at the medium-level cost is $480,000 (Table C-2), so CNAET = $480,000. Because a new antenna does not require a new tower, the third compliance measure, new antenna on a new tower, has no cost (i.e., CNANT = $0). To summarize the present costs,

CEAT = $76,000,
CNAET = $480,000, and
CNANT = $0.

Therefore, the minimum cost compliance measure for station 1424 is CEAT = $76,000.

This analysis can be performed for all stations in any power density group. Table C-3 gives such an analysis for all the TV stations in the 100 $\mu W/cm^2$ group, station numbers 1424 through 1483, inclusive. The first column in Table C-3 is the station number; the second column, EATH; the third column is the cost of this new tower, from Table C-2 for the closest higher corresponding height. The fourth column is NATH; the fifth column, CNAT, is the cost of the new antenna tower from Table C-2. If a taller tower is not required with a new antenna, this cost is zero; the sixth column identifies

Table C-2. Costs of compliance measures for TV broadcast stations.[a]

a. Survey of electromagnetic environment around tower to determine compliance with guideline and need for compliance measure.

	Cost per station		
	Low	Medium	High
Survey	$1,500	$2,000	$2,500

b. New Antenna.

	Cost per station		
	Low	Medium	High
VHF-TV	$240,000	$480,000	$960,000
UHF-TV	150,000	300,000	600,000

c. Tower replacement.

	Cost per station		
Height of new tower (ft)	Low	Medium	High
100	$ 57,000	$ 76,000	$ 83,600
200	120,000	160,000	176,000
300	174,000	232,000	255,000
400	262,500	350,000	385,000
500	360,000	480,000	528,000
600	270,000	360,000	396,000
700	307,500	410,000	451,000
800	343,500	450,000	503,800
900	396,750	529,000	581,900
1000	483,750	645,000	709,500
2000	1,875,000	2,500,000	2,750,000

[a] From Table 11, Vol. 1.

whether or not a new antenna on the existing tower will be sufficient to comply. The seventh column lists the type of antenna required and the eighth column provides the cost from Table C-2. Column 9 is the result of the first minimum-cost test, the lesser of CNANT (Column 5 + Column 8) and CNAET (Column 8 with Column 6 = yes and Column 4 = 0.0). The last column shows the results of a second minimum cost test, the lesser of the results of the first test (Column 9) and CEAT (Column 3); this is the minimum compliance cost for the station.

The total cost of compliance for all sixty stations sums to $9,586,000. This is combined with the survey cost to obtain the total cost of compliance, the annual cash flow over five years, and the present value. The present value is estimated by applying a 10% discount rate to the annual cash flow cost over five years. Listed below is the total cost to society-at-large derived from this information:

Table C-3. A sample calculation of the minimum cost of compliance with guidelines limiting public exposure to radiofrequency radiation from VHF-TV and UHF-TV sources is given for the 100 $\mu W/cm^2$ guidance of the medium-cost level.

STN # 1	EATH 2	CEAT 3	NATH 4	CNAT 5	1=YES 2=NO NACT 6	1=UHF 2=VHF ANT TYPE 7	CNA 8	THE LESSER OF COL 5 AND COL 5+8 9	THE LESSER OF COL 3 AND COL 9 10
1424	46	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1425	47	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1426	82	$76,000	32	$76,000	2	2	$480,000	$556,000	$76,000
1427	74	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1428	31	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1429	107	$160,000	42	$76,000	2	2	$480,000	$556,000	$160,000
1430	68	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1431	47	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1432	95	$76,000	47	$76,000	2	1	$300,000	$376,000	$76,000
1433	113	$160,000	56	$76,000	2	1	$300,000	$376,000	$160,000
1434	94	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1435	60	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1436	83	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1437	106	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1438	89	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1439	104	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1440	90	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1441	82	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1442	89	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1443	127	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1444	130	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1445	148	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1446	161	$160,000	80	$76,000	2	1	$300,000	$376,000	$160,000
1447	140	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1448	92	$76,000	0	$0	1	1	$300,000	$300,000	$76,000
1449	92	$76,000	0	$0	1	2	$480,000	$480,000	$76,000
1450	135	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1451	132	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1452	106	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1453	224	$232,000	112	$160,000	2	1	$300,000	$460,000	$232,000
1454	152	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1455	142	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1456	221	$232,000	111	$160,000	2	1	$300,000	$460,000	$232,000
1457	134	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1458	147	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1459	142	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1460	201	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1461	149	$160,000	0	$0	1	2	$480,000	$480,000	$160,000
1462	257	$232,000	129	$160,000	2	1	$300,000	$460,000	$232,000
1463	169	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1464	208	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1465	126	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1466	186	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1467	320	$350,000	160	$160,000	2	1	$300,000	$460,000	$350,000
1468	167	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1469	195	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1470	228	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1471	216	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1472	222	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1473	215	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1474	177	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1475	192	$160,000	0	$0	1	1	$300,000	$300,000	$160,000
1476	300	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1477	239	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1478	222	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1479	233	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1480	238	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1481	233	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1482	300	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
1483	282	$232,000	0	$0	1	1	$300,000	$300,000	$232,000
									$9,586,000

Total cost of compliance survey, TCS	$2,160,000
Total cost of compliance measures, TCC	9,586,000
Total gross cost of compliance, TGC = TCS + TCC	$11,746,000
Annual cash flow cost, ACF = TGC/5	$2,349,200
Present value, PV	$9,795,848

The annual cash flow cost is the total cost divided by five years. The present value is computed according to

$$PV = \sum_{k=1}^{5} ACF/1.1^{k-1} . \qquad (C-1)$$

COST TO INDUSTRY

The cost to the TV broadcast industry of compliance with a guideline limiting public exposure to radiofrequency radiation includes the survey cost, the capital costs, and the costs of financing the measures taken to meet the exposure guideline. This section illustrates how the annual, total, and average cash flow, and the present value of the net after-tax costs are computed for the 100 $\mu W/cm^2$ guidance level. It is assumed that costs are spread evenly among five cohorts of stations and that loan amortization and interest payments continue for five years after initial installation of the equipment. Each cohort begins compliance the year after the preceding one; this results in costs to industry being distributed over a ten-year period. The inputs for this calculation are:

- Total cost of survey, TCS — $2,160,000
- Total cost of compliance measures, TCC — $9,586,000
- Down payment on compliance measures, DP — $2,396,500
- Amount borrowed (75% of total cost), TLP — $7,189,500
- Interest, IN(k) — 0.10
- Repayment period — 5 years
- Annual loan amortization, AM(k) — $1,437,900
- Effective tax rate — 0.46
- Investment tax credit (10% of TCC) — $958,600
- Depreciation schedule

  Year 1 — 0.15 (TP) = DPN(1)

  Year 2 — 0.22 (TP) = DPN(2)

Year 3 0.21 (TP) = DPN(3)

Year 4 0.21 (TP) = DPN(4)

Year 5 0.21 (TP) = DPN(5)

o Expenses, year 0, EX(0) $2,160,000

Table C-4 provides a summary of the calculation of the annual cash flow over a period of five years based on the information provided above. The calculation considers the gross cash flow, tax shelter effect, and net cash flow that result from expenses, loan down payment, loan amortization, interest payments, depreciation, and investment tax credit. The annual loan amortization is the amount borrowed divided by five. The interest is assumed to be paid on the remaining balance at the end of each year. The only non-depreciable expense considered is that of the survey, which takes place in the first year. The tax effect of expenses, interest, and depreciation is determined by multiplying each of these factors by the effective tax rate. The investment tax credit is based on the value of the tangible property, the new tower and/or antenna, in the first year. The yearly gross cash flow is determined as follows:

$$GCF(k) = DP(0) + TCS(0), \text{ for } k = 0, \text{ or} \quad \text{(C-2)}$$
$$GCF(k) = AM(k) + IN(k), \text{ for } k = 1 \text{ to } 5$$

where

GCF(k) = gross cash flow cost in year k,

DP(0) = down payment,

TCS(0) = total cost of survey,

AM(k) = loan amortization in year k,

IN(k) = interest payment in year k, and

k = year index, 0 = year of compliance; 1-5 = continued compliance costs.

The yearly tax shelter effect iis given by

$$TS(k) = TREX(0) + ITC(0), \text{ for } k = 0, \text{ or} \quad \text{(C-3)}$$
$$TS(k) = TRIN(k) + TRDPN(k), \text{ for } k = 1 \text{ to } 5,$$

Table C-4. A sample calculation of the costs to the TV broadcast industry of guidelines limiting public exposure to radiofrequency radiation is given for compliance with a 100 $\mu W/cm^2$ guidance at the medium-cost level. Numbers are in millions of dollars.

Parameter	Year 0	1	2	3	4	5
EX	$2.160					
DP	2.396					
AM		$7.189	$5.752	$4.314	$2.876	$1.438
IN		0.719	0.575	0.431	0.288	0.144
GCF	4.556	2.157	2.013	1.869	1.725	1.582
TREX	0.994					
TRIN		0.331	0.265	0.198	0.132	0.066
TRDPN		0.661	0.970	0.926	0.926	0.926
ITC	0.959					
TS	1.953	0.992	1.235	1.124	1.058	0.992
NCF	2.603	1.165	0.778	0.745	0.667	0.589
			Cohort costs			
CNCF	$0.521	$0.233	$0.150	$0.199	$0.133	$0.118

where

TS(k) = tax shelter in year k,
TREX(k) = 0.46 • Ex(k),
ITC = investment tax credit,
TRIN(k) = 0.46 • IN(k),
TRDPN(k) = 0.46 • DPN(k), and
k = year index, 0 to 5.

Table C-5. The cost to the TV broadcast industry of guidelines limiting public exposure to radiofrequency radiation is given for compliance with the 100 V/m guidance at the medium-cost level. Numbers are in millions of dollars.

	Year									
Cohort	0	1	2	3	4	5	6	7	8	9
CNCF 1	$0.521	$0.233	$0.156	$0.149	$0.133	$0.118				
CNCF 2		0.521	0.233	0.156	0.149	0.133	0.118			
CNCF 3			0.521	0.233	0.156	0.149	0.133	0.118		
CNCF 4				0.521	0.233	0.156	0.149	0.133	0.118	
CNCF 5					0.521	0.233	0.156	0.149	0.133	0.118
TNCF	$0.522	$0.754	$0.910	$1.059	$1.192	$0.789	$0.556	$0.400	$0.251	$0.118
ANCF =	$0.655									
PV =	$4.743									

The net cash flow in year k, NCF(k) is the difference between the gross cash flow GCF(k) and the tax shelter TS(k) and is given by

$$NCF(k) = GCF(k) - TS(k) . \qquad (C-4)$$

Table C-4 shows how costs are calculated for a cohort of TV broadcast stations using the variables discussed above for compliance with the 100 $\mu W/cm^2$ guideline. The values in the last row of Table C-4 are shown for each cohort in Table C-5. The additional values shown in Tables C-4 and C-5 are computed as follows

$$CNCF(k) = NCF(k)/5 , \qquad (C-5)$$

where

CNCF(k) = the cohort net cash flow cost in year k, and

NCF(k) = the industry net cash flow cost in year k.

The six years of cohort costs CNCF(k) for five cohorts are spread over a total of 10 years, as shown in Table C-5. The total cost for each year, TNCF(k), is the sum of the individual CNCF(k)s for a given year; because the five cohorts' expenses occur over six years and cohort compliance is staggered over five years, the costs to industry are spread over a 10 year period. See Table C-5.

$$ANCF = \left[\sum_{k=1}^{10} TNCF(k)\right]/10 . \qquad (C\text{-}6)$$

$$PV = \sum_{k=1}^{10} TNCF(k)/1.1^{k-1} , \qquad (C\text{-}7)$$

where

ANCF = the average annual net cash flow cost for the industry,
TNCF(k) = the total net cash flow cost for all five cohorts, and
PV = present value of the cost to industry.

EFFECTS ON THE AVERAGE PROFITABLE TV BROADCAST STATION

In this section, a sample calculation is presented of the cost of the 100 $\mu W/cm^2$ guideline to the average profitable TV broadcast station. The objective is to determine the net annual cost of compliance over a six year period. From this, the present value of the net cost of compliance is determined. It is assumed that the average profitable TV station has a yearly gross income of $2,380,000 throughout the period of analysis.

The average station gross cash flow cost of compliance is given by the expression

$$AGCF(k) = ACS + ADP, \text{ for } k = 0 , \text{ or} \qquad (C\text{-}8)$$
$$AGCF(k) = AIN(k) + AAM(k), \text{ for } k = 1 \text{ to } 5 ,$$

where

AGCFC(k) = average gross cash flow cost in year k,
ACS(k) = cost of survey per station,
ADP(k) = average cost of the down payment per station,
AIN(k) = average interest cost in time period k per station,
AAM(k) = average amortization cost per station in year k, and
k = year index, 0 to 5.

The average down payment, interest, and amortization cost in each time period are obtained by using the corresponding values for the entire industry from Table C-3 and dividing by the number of stations required to take compliance measures, in the case of the 100 $\mu W/cm^2$, medium-cost-level, 60 (refer to Table C-1). In addition, the average station tax shelter from depreciation is obtained by dividing the industry value in Table C-3 by NSF, 60. The effect of averaging the costs in this manner is to create a weighted average cost over all compliance measures for the average firm. These calculations are summarized in Table C-6.

The average taxable operating income is given by

$$ATOI(0) = AOIA(0) + ADP(0), \text{ for } k = 0, \text{ or} \qquad \text{(C-9)}$$
$$ATOI(k) = AOIA(k) + AAM(k) - ADPN(k), \text{ for } k = 1 \text{ to } 5,$$

where

ATOI(k) = average taxable operating income in year k,
AOIA(k) = average operating income after compliance in year k,
ADP(0) = average down payment in year 0,
AAM(k) = average amortization in year k,
ADPN(k) = average depreciation in year k, and
k = year index, 0 to 5.

In order to calculate tax savings the following corporate tax rates are applied

Income tax bracket		Tax rate
ATOI		
Minimum	Maximum	
$0	$25,000	$TR_1 = 0.15$
$25,001	$50,000	$TR_2 = 0.18$
$50,001	$75,000	$TR_3 = 0.30$
$75,001	$100,000	$TR_4 = 0.40$
$100,001	No maximum	$TR_5 = 0.46$

Table C-6. A sample calculation of the costs to the average profitable TV broadcast station of guidelines limiting public exposure to radiofrequency radiation is given for compliance with the 100 $\mu W/cm^2$ guidance of the medium-cost level. Numbers are in thousands of dollars.

Item	Pre Guideline	Years of compliance expense 0	1	2	3	4	5
AOIB	$2,380	$2,380	$2,380	$2,380	$2,380	$2,380	$2,380
AGCF		42	36	34	31	29	26
AOIA	2,380	2,338	2,344	2,346	2,349	2351	2354
ADP/AAM		+40	+24	+24	+24	+24	+24
ADPN			-24	-35	-34	-34	-34
ATOI	2,380	2,378	2,344	2,335	2,339	2,342	2,344
AGT	1,074	1,074	1,058	1,054	1,056	1,057	1,058
AITC		+16					
ANT	-1,074	-1,058	-1,058	-1,054	-1,056	-1,057	-1,058
ANIA	$1,305	$1,280	$1,286	$1,292	$1,293	$1,294	$1,296
		Net annual cost of compliance					
AGCF		42	36	34	31	29	26
ATSA		-17	-17	-21	-19	-18	-17
NCC		$25	$20	$13	$13	$11	$10
ANCC	$15						
		Present value					
	Average	Cohort 1	Cohort 2	Cohort 3	Cohort 4	Cohort 5	
PV	$64	$76	$70	$63	$57	$52	

The average gross tax is given by:

Taxable income bracket	Tax formula	
for ATOI(k) > \$100,000	$AGT(k) = \$25{,}000\,(TR_1+TR_2+TR_3+TR_4) + TR_5\,(ATOI(k) - \$100{,}000)$,	(C-10)
for \$75,000 < ATOI(k) $\leq$ \$100,000	$AGT(k) = \$25{,}000\,(TR_1+TR_2+TR_3) + TR_4\,(ATOI(k) - \$75{,}000)$,	(C-11)
for \$50,000 < ATOI(k) $\leq$ \$75,000	$AGT(k) = \$25{,}000\,(TR_1+TR_2) + TR_3\,(ATOI(k) - \$50{,}000)$,	(C-12)
for \$25,000 < ATOI(k) $\leq$ \$50,000	$AGT(k) = \$25{,}000(TR_1) + TR_2\,(ATOI(k) - \$25{,}000)$,	(C-13)
for ATOI(k) $\leq$ \$25,000	$AGT(k) = ATOI(k)\,TR_1$,	(C-14)

where

AGT(k) = average gross tax in year k,

ATOI(k) = average taxable operating income in year k, and

TR_j = tax rate for income bracket j.

The average gross tax is given in Table C-5 for each time period. The net tax, ANT(k), also given in C-5, is obtained by subtracting the average station investment tax credit, \$959.6/60 = \$16, from the gross tax in year 0.

The average net operating income after tax, ANIA(k), in year k is given by

$$ANIA(k) = AOIA(k) - ANT(k), \text{ for } k = 0 \text{ to } 5, \tag{C-15}$$

where

AOIA(k) = average income after compliance and before taxes in year k, and

ANT(k) = average net tax in year k.

The average tax savings in year k, ATSA(k), is given by

$$ATSA(k) = ANTB - ANT(k) \tag{C-16}$$

where

ANTB = average net tax in the year prior to the guideline, and

ANT(k) = average net tax in year k.

The annual net cost of compliance, NCC(k), in year k is

$$NCC(k) = AGCF(k) - ATSA(k) , \tag{C-17}$$

where

AGCF(k) = the average gross cash flow cost of compliance in year k, and

ATSA(k) = the average tax savings in year k.

The average annual net cost is the sum of the yearly net costs, $91,000, divided by six years, or $15,200 per year.

The present value, PV, is obtained from the expression

$$PV = \sum_{k=1}^{5} NCC(k)/1.1^{k-1} , \tag{C-18}$$

where

PV = present value, and

NCC(k) = annual net cost of compliance in year k.

However, this is the present value of the cost of compliance for a firm in the first cohort only. For a firm in the c^{th} cohort the present value is given by the expression

$$PV(c) \sum_{k=1}^{5} NCC(k)/(1.1)^{k-2+c} , \tag{C-19}$$

where

PV(c) = the present value of the cost of compliance for a firm in the c^{th} cohort, and

NCC(k) = the annual net cost of compliance for the average firm.

The average present value, APV, is obtained by calculating the mean of the cohort present values

$$APV = \sum_{c=1}^{5} PV(c) \ /5 . \tag{C-20}$$

APPENDIX D

COST ESTIMATES FOR FM STATIONS

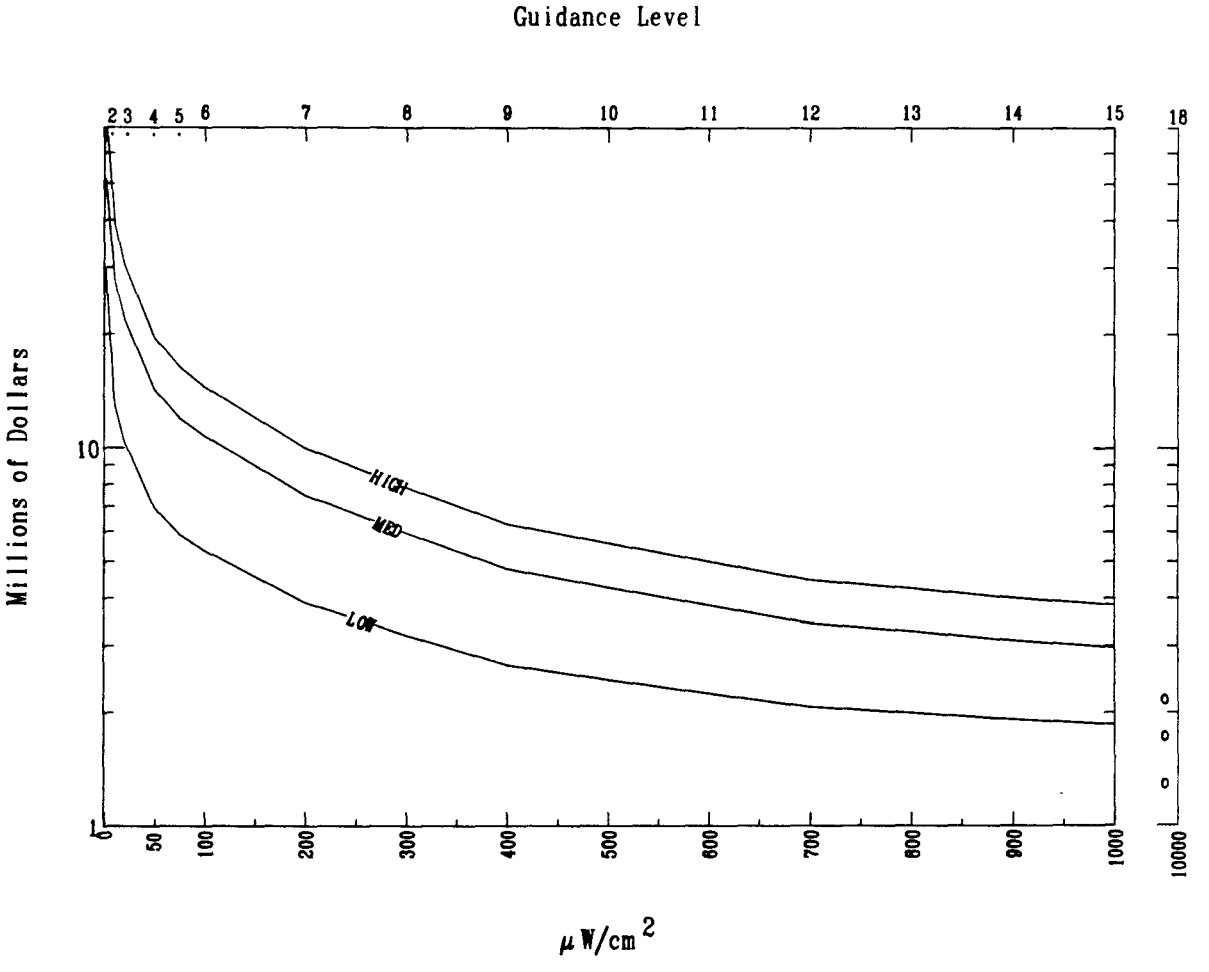

Figure D-1. The annual cash flow (current year dollar) cost to society-at-large of guidelines limiting public exposure to radiofrequency radiation from FM radio broadcast sources is shown for 18 specified guidance levels at three cost levels. It is assumed that stations select one of five compliance measures and that compliance costs are spread evenly among five annual cohorts of stations.

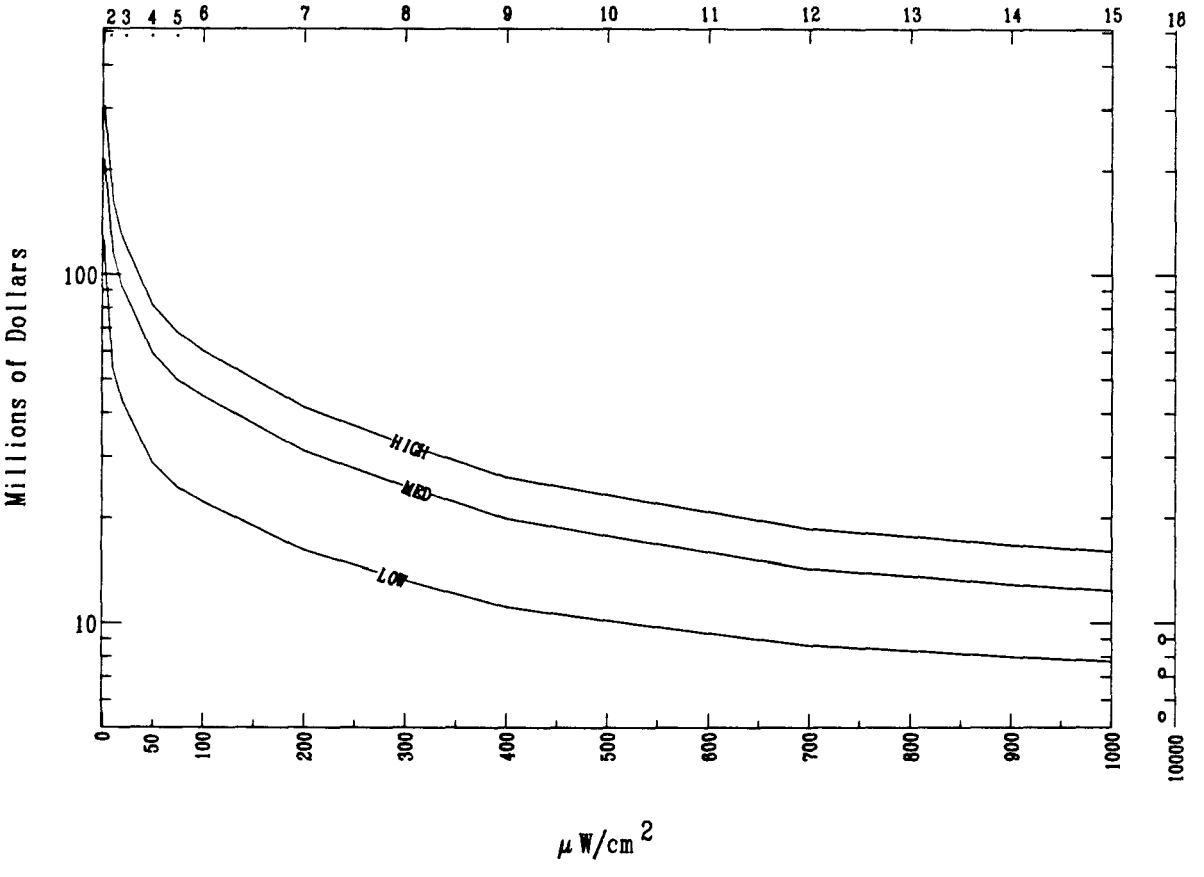

Figure D-2. The present (constant dollar) value of the cost to society-at-large of guidelines limiting public exposure to radiofrequency radiation from FM radio broadcast sources is shown for 18 specified guidance levels at three cost levels. It is assumed that stations select one of five compliance measures.

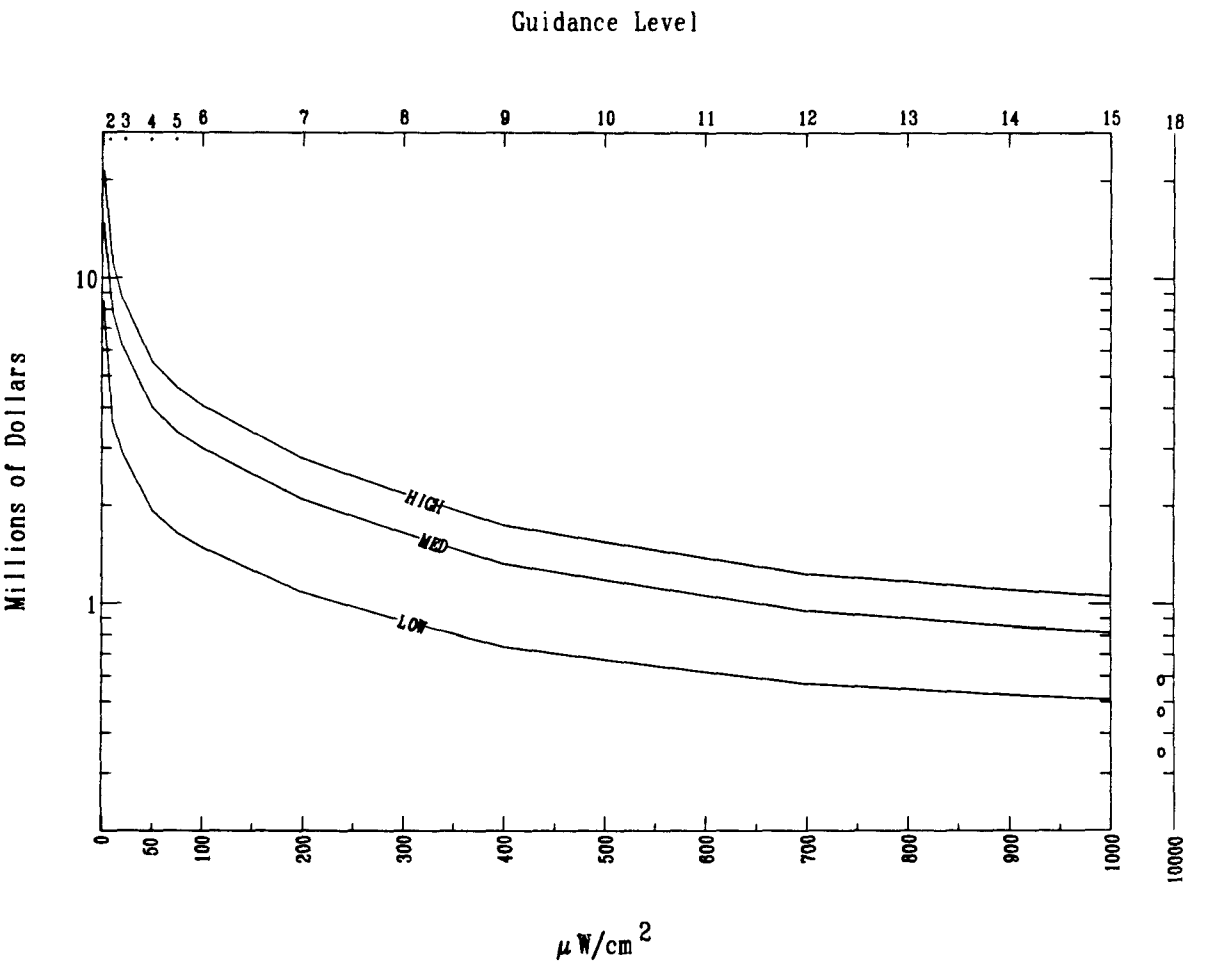

Figure D-3. The average annual net after-tax cash flow (current year dollar) cost to the FM radio broadcast industry of guidelines limiting public exposure to radiofrequency radiation is shown for 18 specified guidance levels at three cost levels. It is assumed that stations select one of five compliance measures.

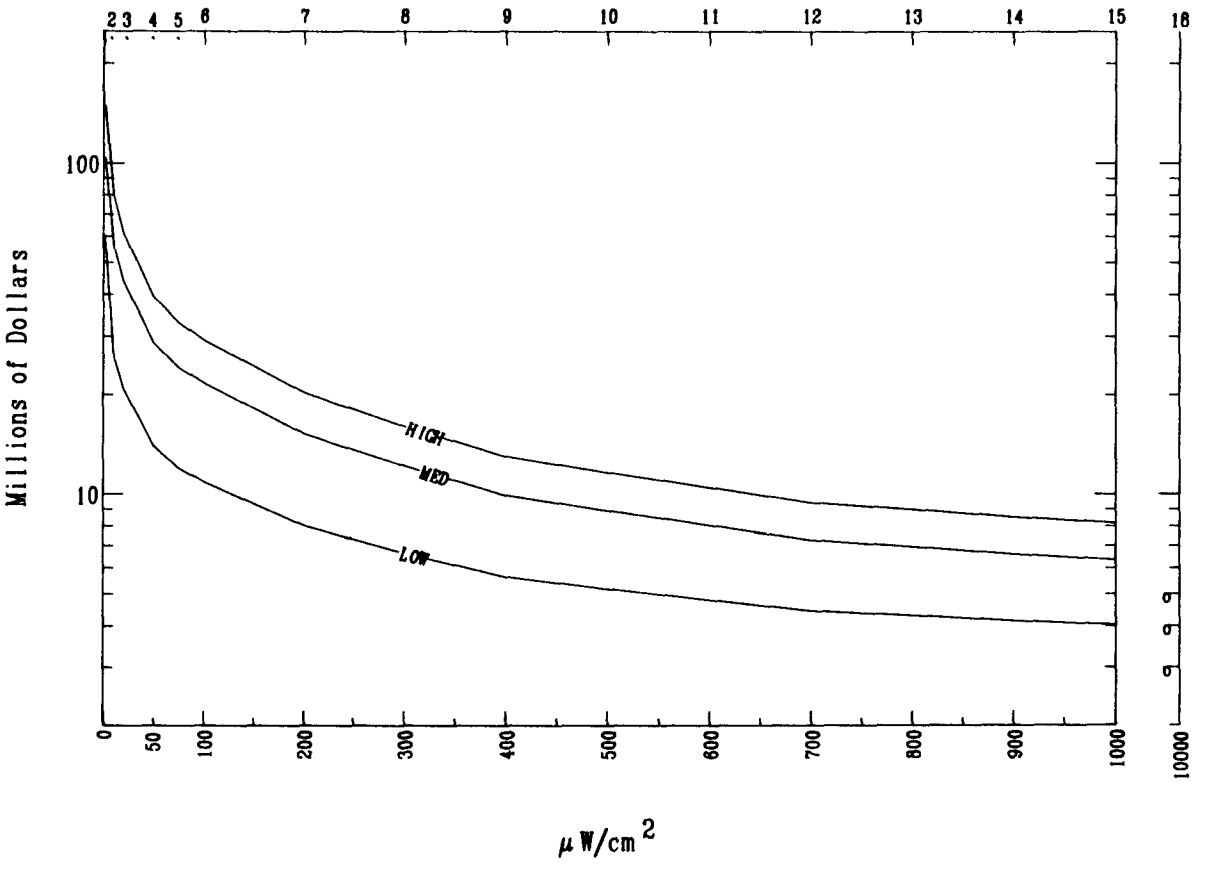

Figure D-4. The present (constant dollar) value of the net after-tax cost to the FM radio broadcast industry of guidelines limiting public exposure to radio-frequency radiation is shown for 18 specified guidance levels at three cost levels. It is assumed that stations select one of five compliance measures.

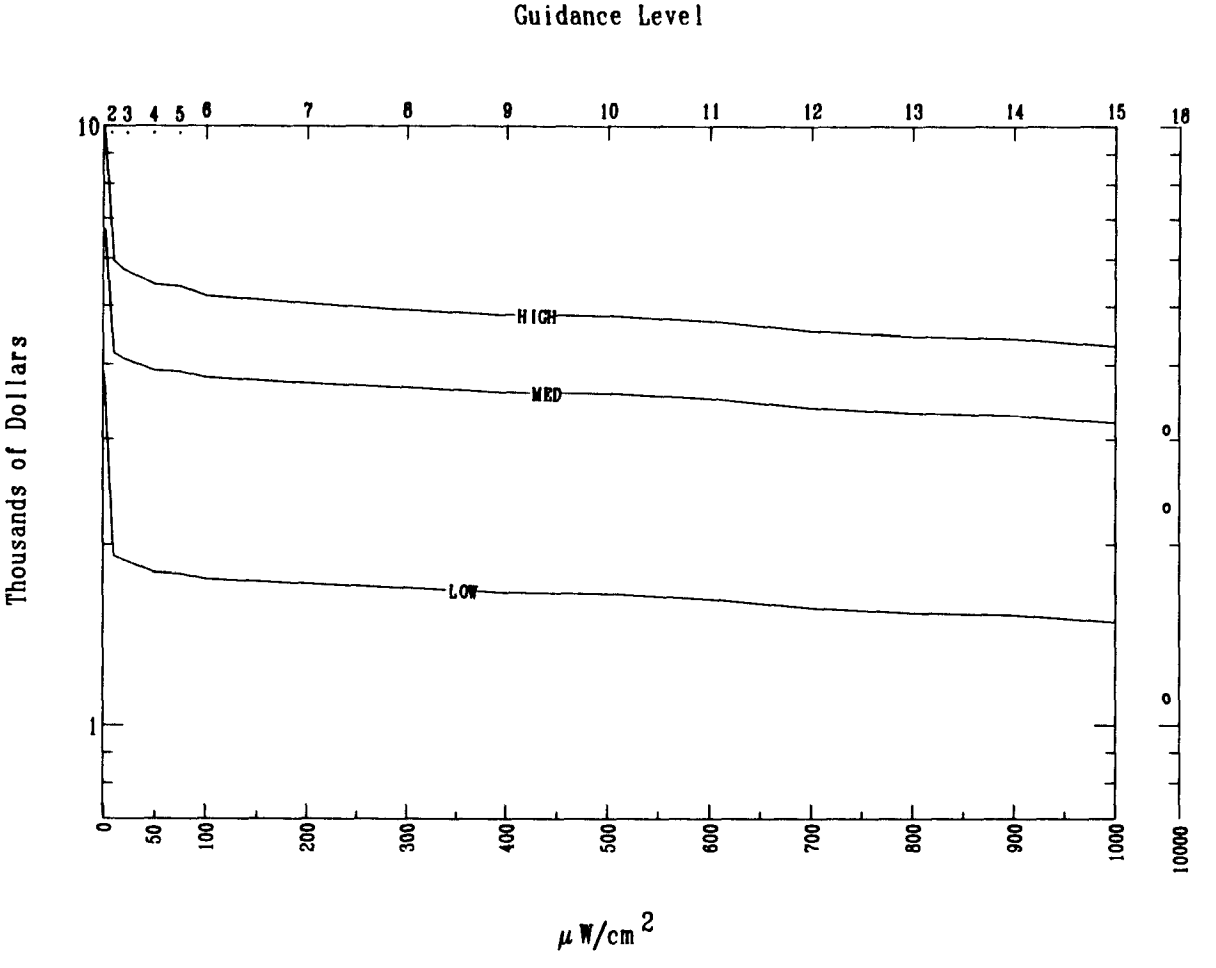

Figure D-5. The average annual net after-tax cash flow (current year dollar) cost of compliance for the average profitable FM radio broadcast station of guidelines limiting public exposure to radiofrequency radiation is shown for 18 specified guidance levels at three cost levels. It is assumed that stations select one of five compliance measures.

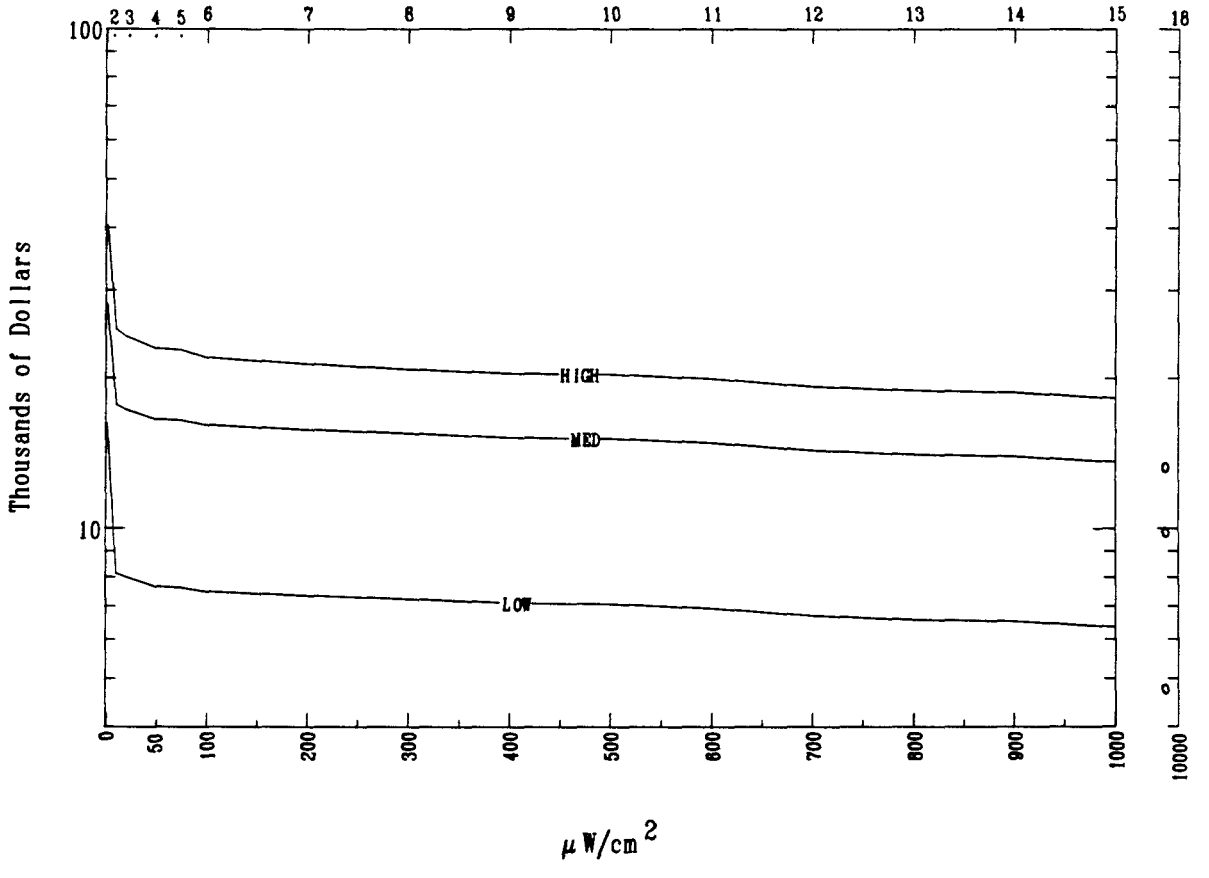

Figure D-6. The average (of 5 cohorts) present (constant dollar) value of the net after-tax cost of compliance for the average profitable FM radio broadcast station of guidelines limiting public exposure to radiofrequency radiation is shown for 18 specified guidance levels at 3 cost levels. It is assumed that stations select one of five compliance measures.

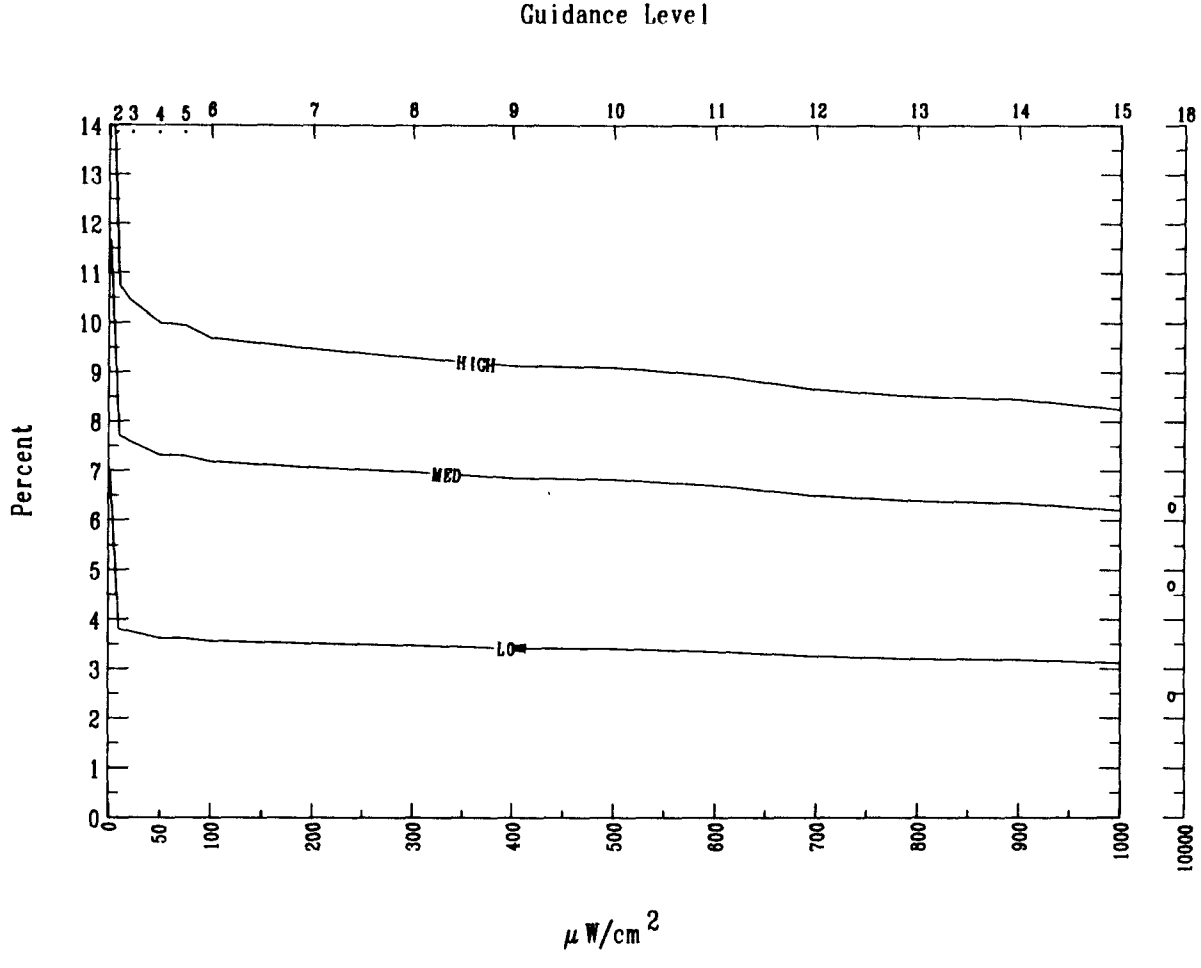

Figure D-7. The percentage reduction in the net profit of the average profitable FM radio broadcast station associated with the maximum annual cash flow cost of compliance with guidelines limiting public exposure to radiofrequency radiation is shown for 18 guidance levels at 3 cost levels. It is assumed that stations select one of five compliance measures.

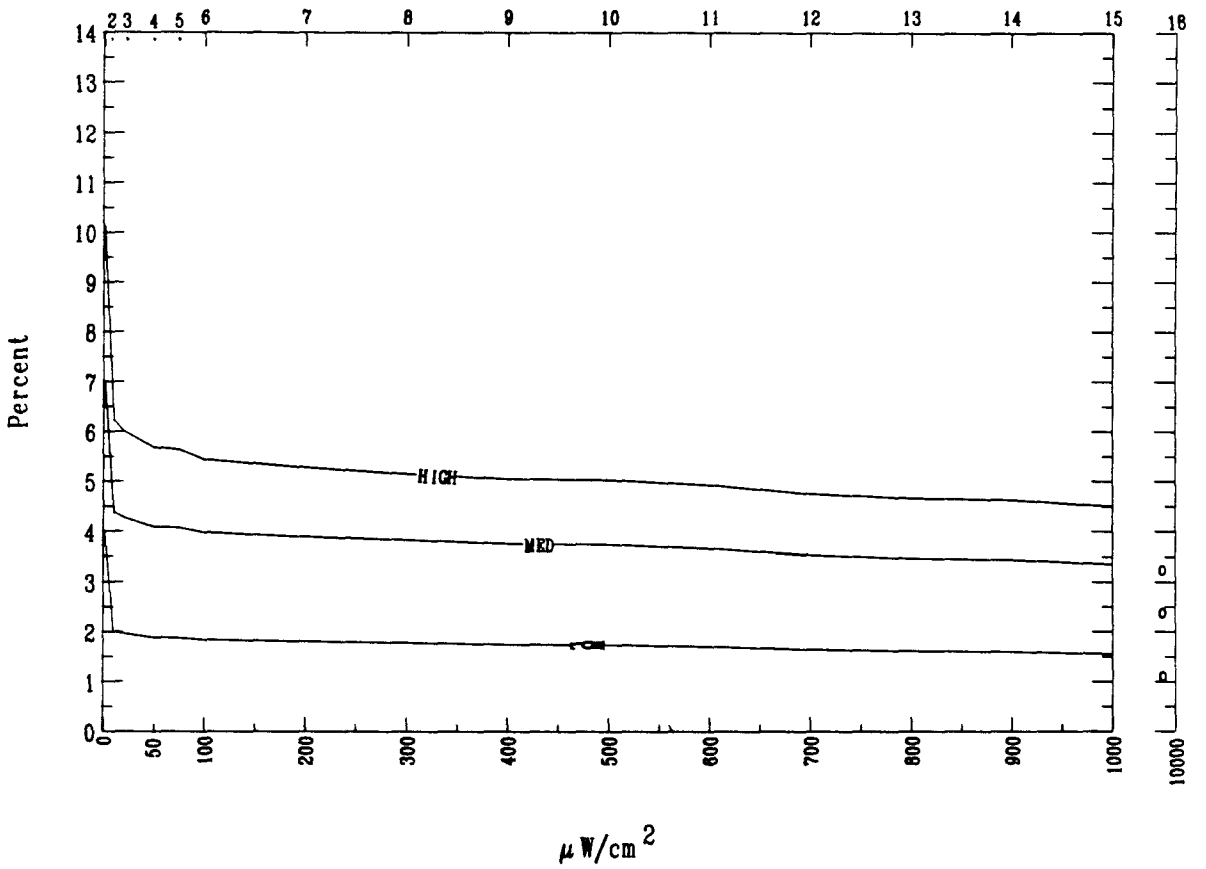

Figure D-8. The percentage reduction in the net profit of the average profitable FM radio broadcast station associated with the average annual cash flow cost of compliance with guidelines limiting public exposure to radiofrequency radiation is shown for 18 guidance levels at 3 cost levels. It is assumed that stations select one of five compliance measures.

TABLE D-1. AN ESTIMATE OF THE POTENTIAL COST TO THE SOCIETY-AT-LARGE OF GUIDELINES LIMITING PUBLIC EXPOSURE TO RADIO-FREQUENCY RADIATION FROM FM RADIO BROADCAST SOURCES IS GIVEN FOR 3 COST LEVELS. THE TOTAL GROSS COST, ANNUAL CASH FLOW (CURRENT YEAR DOLLAR) COST AND THE PRESENT (CONSTANT DOLLAR) VALUE ARE SHOWN FOR COMPLIANCE WITH 18 SPECIFIED GUIDANCE LEVELS. IT IS ASSUMED THAT STATIONS SELECT ONE OF FIVE COMPLIANCE MEASURES (2 THROUGH 6) AND THAT COMPLIANCE COSTS (ANNUAL CASH FLOW) ARE SPREAD EVENLY AMONG FIVE ANNUAL COHORTS OF STATIONS. NUMBERS ARE IN MILLIONS OF DOLLARS.

GUIDANCE LEVEL	LOW COST	MEDIUM COST	HIGH COST
1. 1 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	143.45	248.64	355.35
TOTAL GROSS COST	150.01	257.39	366.28
ANNUAL CASH FLOW COST	30.00	51.48	73.26
PRESENT VALUE	125.11	214.65	305.47
2. 10 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	58.54	131.01	186.07
TOTAL GROSS COST	65.10	139.76	197.00
ANNUAL CASH FLOW COST	13.02	27.95	39.40
PRESENT VALUE	54.29	116.55	164.30
3. 20 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	45.23	100.70	141.41
TOTAL GROSS COST	51.79	109.45	152.35
ANNUAL CASH FLOW COST	10.36	21.89	30.47
PRESENT VALUE	43.19	91.28	127.06
4. 50 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	27.99	62.55	86.92
TOTAL GROSS COST	34.55	71.30	97.86
ANNUAL CASH FLOW COST	6.91	14.26	19.57
PRESENT VALUE	28.82	59.46	81.61
5. 75 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	22.84	51.10	70.83
TOTAL GROSS COST	29.40	59.84	81.77
ANNUAL CASH FLOW COST	5.88	11.97	16.35
PRESENT VALUE	24.52	49.91	68.19

TABLE D-1. (CONTINUED)

GUIDANCE LEVEL	LOW COST	MEDIUM COST	HIGH COST
6. 100 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	20.10	44.91	61.46
TOTAL GROSS COST	26.67	53.65	72.40
ANNUAL CASH FLOW COST	5.33	10.73	14.48
PRESENT VALUE	22.24	44.75	60.38
7. 200 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	12.86	28.65	38.95
TOTAL GROSS COST	19.42	37.39	49.88
ANNUAL CASH FLOW COST	3.88	7.48	9.98
PRESENT VALUE	16.19	31.19	41.60
8. 300 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	9.39	20.92	28.22
TOTAL GROSS COST	15.95	29.67	39.16
ANNUAL CASH FLOW COST	3.19	5.93	7.83
PRESENT VALUE	13.30	24.74	32.66
9. 400 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	6.79	15.13	20.43
TOTAL GROSS COST	13.35	23.88	31.36
ANNUAL CASH FLOW COST	2.67	4.78	6.27
PRESENT VALUE	11.14	19.91	26.15
10. 500 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	5.64	12.58	16.98
TOTAL GROSS COST	12.20	21.32	27.91
ANNUAL CASH FLOW COST	2.44	4.26	5.58
PRESENT VALUE	10.18	17.78	23.28

TABLE D-1. (CONTINUED)

GUIDANCE LEVEL	LOW COST	MEDIUM COST	HIGH COST
11. 600 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	4.66	10.40	14.04
TOTAL GROSS COST	11.22	19.15	24.98
ANNUAL CASH FLOW COST	2.24	3.83	5.00
PRESENT VALUE	9.36	15.97	20.83
12. 700 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	3.78	8.45	11.40
TOTAL GROSS COST	10.35	17.20	22.33
ANNUAL CASH FLOW COST	2.07	3.44	4.47
PRESENT VALUE	8.63	14.34	18.63
13. 800 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	3.42	7.64	10.31
TOTAL GROSS COST	9.98	16.39	21.25
ANNUAL CASH FLOW COST	2.00	3.28	4.25
PRESENT VALUE	8.32	13.67	17.72
14. 900 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	3.02	6.75	9.12
TOTAL GROSS COST	9.59	15.50	20.05
ANNUAL CASH FLOW COST	1.92	3.10	4.01
PRESENT VALUE	7.99	12.93	16.72
15. 1000 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	2.74	6.13	8.27
TOTAL GROSS COST	9.30	14.88	19.20
ANNUAL CASH FLOW COST	1.86	2.98	3.84
PRESENT VALUE	7.76	12.41	16.01

TABLE D-1. (CONTINUED)

GUIDANCE LEVEL	LOW COST	MEDIUM COST	HIGH COST
16. 2000 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	1.24	2.76	3.73
TOTAL GROSS COST	7.80	11.51	14.67
ANNUAL CASH FLOW COST	1.56	2.30	2.93
PRESENT VALUE	6.51	9.60	12.23
17. 5000 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	0.28	0.62	0.85
TOTAL GROSS COST	6.84	9.37	11.78
ANNUAL CASH FLOW COST	1.37	1.87	2.36
PRESENT VALUE	5.71	7.82	9.83
18. 10000 MICROWATT PER SQ. CM			
COMPLIANCE SURVEY COST	6.56	8.75	10.94
COMPLIANCE MEASURE COST	0.04	0.08	0.11
TOTAL GROSS COST	6.60	8.83	11.04
ANNUAL CASH FLOW COST	1.32	1.77	2.21
PRESENT VALUE	5.50	7.36	9.21

TABLE D-2. AN ESTIMATE OF THE POTENTIAL COST TO THE FM BROADCAST INDUSTRY OF GUIDELINES LIMITING PUBLIC EXPOSURE TO RADIOFREQUENCY RADIATION IS GIVEN FOR 3 COST LEVELS. THE ANNUAL, AVERAGE AND TOTAL CASH FLOW (CURRENT YEAR DOLLAR) COST AND THE PRESENT (CONSTANT DOLLAR) VALUE OF THE NET AFTER TAX COST ARE SHOWN FOR COMPLIANCE WITH 18 SPECIFIED GUIDANCE LEVELS. IT IS ASSUMED THAT STATIONS SELECT ONE OF FIVE COMPLIANCE MEASURES (2 THROUGH 6) AND THAT COMPLIANCE COSTS (ANNUAL NET CASH FLOW) ARE SPREAD EVENLY AMONG FIVE ANNUAL COHORTS OF STATIONS. NUMBERS ARE IN MILLIONS OF DOLLARS.

GUIDANCE LEVEL 1. 1 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	4.987	3.488	2.371	2.274	2.049	1.824					
COHORT 2		4 987	3.488	2.371	2.274	2.049	1.824				
COHORT 3			4.987	3.488	2.371	2.274	2.049	1.824			
COHORT 4				4.987	3.488	2.371	2.274	2.049	1.824		
COHORT 5					4.987	3.488	2.371	2.274	2.049	1.824	
ANNUAL CASH FLOW PROJECTED	4.987	8.475	10.846	13.120	15.169	12.006	8.518	6.147	3.874	1.824	84.967
AVERAGE	8.497										
PRESENT VALUE	59.872										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	8.304	6.051	4.202	4.042	3.670	3.298					
COHORT 2		8.304	6.051	4.202	4.042	3.670	3.298				
COHORT 3			8.304	6.051	4.202	4.042	3.670	3.298			
COHORT 4				8.304	6.051	4.202	4.042	3.670	3.298		
COHORT 5					8.304	6.051	4.202	4.042	3.670	3.298	
ANNUAL CASH FLOW PROJECTED	8.304	14.356	18.558	22.600	26.270	21.264	15.212	11.010	6.968	3.298	147.839
AVERAGE	14.784										
PRESENT VALUE	103.703										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	11.617	8.656	6.141	5.922	5.417	4.911					
COHORT 2		11.617	8.656	6.141	5.922	5.417	4.911				
COHORT 3			11.617	8.656	6.141	5.922	5.417	4.911			
COHORT 4				11.617	8.656	6.141	5.922	5.417	4.911		
COHORT 5					11.617	8.656	6.141	5.922	5.417	4.911	
ANNUAL CASH FLOW PROJECTED	11.617	20.273	26.414	32.336	37.752	31.047	22.390	16.250	10.327	4.911	213.317
AVERAGE	21.332										
PRESENT VALUE	149.111										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 2. 10 MICROWATT PER SQ. CM

LOW COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	2.459	1.423	0.961	0.921	0.828	0.735					
COHORT 2		2.459	1.423	0.961	0.921	0.828	0.735				
COHORT 3			2.459	1.423	0.961	0.921	0.828	0.735			
COHORT 4				2.459	1.423	0.961	0.921	0.828	0.735		
COHORT 5					2.459	1.423	0.961	0.921	0.828	0.735	
ANNUAL CASH FLOW PROJECTED	2.459	3.882	4.843	5.764	6.592	4.869	3.445	2.484	1.563	0.735	36.636
AVERAGE	3.664										
PRESENT VALUE	26.107										

MEDIUM COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	4.850	3.186	2.169	2.081	1.877	1.672					
COHORT 2		4.850	3.186	2.169	2.081	1.877	1.672				
COHORT 3			4.850	3.186	2.169	2.081	1.877	1.672			
COHORT 4				4.850	3.186	2.169	2.081	1.877	1.672		
COHORT 5					4.850	3.186	2.169	2.081	1.877	1.672	
ANNUAL CASH FLOW PROJECTED	4.850	8.036	10.205	12.286	14.162	10.985	7.799	5.630	3.549	1.672	79.172
AVERAGE	7.917										
PRESENT VALUE	55.969										

HIGH COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	6.706	4.527	3.115	2.993	2.709	2.425					
COHORT 2		6.706	4.527	3.115	2.993	2.709	2.425				
COHORT 3			6.706	4.527	3.115	2.993	2.709	2.425			
COHORT 4				6.706	4.527	3.115	2.993	2.709	2.425		
COHORT 5					6.706	4.527	3.115	2.993	2.709	2.425	
ANNUAL CASH FLOW PROJECTED	6.706	11.233	14.348	17.341	20.050	15.769	11.243	8.127	5.134	2.425	112.378
AVERAGE	11.238										
PRESENT VALUE	79.232										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 3. 20 MICROWATT PER SQ. CM

LOW COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	2.062	1.099	0.741	0.710	0.638	0.566					
COHORT 2		2.062	1.099	0.741	0.710	0.638	0.566				
COHORT 3			2.062	1.099	0.741	0.710	0.638	0.566			
COHORT 4				2.062	1.099	0.741	0.710	0.638	0.566		
COHORT 5					2.062	1.099	0.741	0.710	0.638	0.566	
ANNUAL CASH FLOW PROJECTED	2.062	3.161	3.902	4.612	5.250	3.754	2.654	1.913	1.204	0.566	29.077
AVERAGE	2.908										
PRESENT VALUE	20.823										

MEDIUM COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	3.950	2.449	1.661	1.593	1.435	1.276					
COHORT 2		3.950	2.449	1.661	1.593	1.435	1.276				
COHORT 3			3.950	2.449	1.661	1.593	1.435	1.276			
COHORT 4				3.950	2.449	1.661	1.593	1.435	1.276		
COHORT 5					3.950	2.449	1.661	1.593	1.435	1.276	
ANNUAL CASH FLOW PROJECTED	3.950	6.399	8.060	9.653	11.088	8.414	5.965	4.304	2.711	1.276	61.820
AVERAGE	6.182										
PRESENT VALUE	43.860										

HIGH COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	5.388	3.440	2.355	2.261	2.042	1.824					
COHORT 2		5.388	3.440	2.355	2.261	2.042	1.824				
COHORT 3			5.388	3.440	2.355	2.261	2.042	1.824			
COHORT 4				5.388	3.440	2.355	2.261	2.042	1.824		
COHORT 5					5.388	3.440	2.355	2.261	2.042	1.824	
ANNUAL CASH FLOW PROJECTED	5.388	8.828	11.183	13.443	15.486	11.922	8.482	6.127	3.867	1.824	86.550
AVERAGE	8.655										
PRESENT VALUE	61.245										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 4. 50 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.547	0.680	0.458	0.438	0.393	0.349					
COHORT 2		1.547	0.680	0.458	0.438	0.393	0.349				
COHORT 3			1.547	0.680	0.458	0.438	0.393	0.349			
COHORT 4				1.547	0.680	0.458	0.438	0.393	0.349		
COHORT 5					1.547	0.680	0.458	0.438	0.393	0.349	
ANNUAL CASH FLOW											
PROJECTED	1.547	2.227	2.684	3.123	3.516	2.318	1.638	1.180	0.742	0.349	19.323
AVERAGE	1.932										
PRESENT VALUE	14.000										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	2.814	1.521	1.027	0.985	0.886	0.786					
COHORT 2		2.814	1.521	1.027	0.985	0.886	0.786				
COHORT 3			2.814	1.521	1.027	0.985	0.886	0.786			
COHORT 4				2.814	1.521	1.027	0.985	0.886	0.786		
COHORT 5					2.814	1.521	1.027	0.985	0.886	0.786	
ANNUAL CASH FLOW											
PROJECTED	2.814	4.335	5.362	6.347	7.232	5.205	3.684	2.657	1.672	0.786	40.094
AVERAGE	4.009										
PRESENT VALUE	28.683										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	3.773	2.114	1.438	1.379	1.243	1.108					
COHORT 2		3.773	2.114	1.438	1.379	1.243	1.108				
COHORT 3			3.773	2.114	1.438	1.379	1.243	1.108			
COHORT 4				3.773	2.114	1.438	1.379	1.243	1.108		
COHORT 5					3.773	2.114	1.438	1.379	1.243	1.108	
ANNUAL CASH FLOW											
PROJECTED	3.773	5.886	7.324	8.704	9.947	7.282	5.168	3.730	2.351	1.108	55.274
AVERAGE	5.527										
PRESENT VALUE	39.430										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 5. 75 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.392	0.555	0.373	0.357	0.321	0.284					
COHORT 2		1.392	0.555	0.373	0.357	0.321	0.284				
COHORT 3			1.392	0.555	0.373	0.357	0.321	0.284			
COHORT 4				1.392	0.555	0.373	0.357	0.321	0.284		
COHORT 5					1.392	0.555	0.373	0.357	0.321	0.284	
ANNUAL CASH FLOW PROJECTED	1.392	1.948	2.321	2.678	2.999	1.890	1.335	0.962	0.605	0.284	16.413
AVERAGE	1.641										
PRESENT VALUE	11.964										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	2.472	1.242	0.839	0.803	0.722	0.641					
COHORT 2		2.472	1.242	0.839	0.803	0.722	0.641				
COHORT 3			2.472	1.242	0.839	0.803	0.722	0.641			
COHORT 4				2.472	1.242	0.839	0.803	0.722	0.641		
COHORT 5					2.472	1.242	0.839	0.803	0.722	0.641	
ANNUAL CASH FLOW PROJECTED	2.472	3.714	4.553	5.356	6.079	4.248	3.005	2.167	1.364	0.641	33.600
AVERAGE	3.360										
PRESENT VALUE	24.142										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	3.294	1.722	1.170	1.122	1.011	0.900					
COHORT 2		3.294	1.722	1.170	1.122	1.011	0.900				
COHORT 3			3.294	1.722	1.170	1.122	1.011	0.900			
COHORT 4				3.294	1.722	1.170	1.122	1.011	0.900		
COHORT 5					3.294	1.722	1.170	1.122	1.011	0.900	
ANNUAL CASH FLOW PROJECTED	3.294	5.016	6.186	7.308	8.319	5.925	4.203	3.033	1.911	0.900	46.094
AVERAGE	4.609										
PRESENT VALUE	33.020										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 6. 100 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.311	0.489	0.327	0.314	0.281	0.249					
COHORT 2		1.311	0.489	0.327	0.314	0.281	0.249				
COHORT 3			1.311	0.489	0.327	0.314	0.281	0.249			
COHORT 4				1.311	0.489	0.327	0.314	0.281	0.249		
COHORT 5					1.311	0.489	0.327	0.314	0.281	0.249	
ANNUAL CASH FLOW PROJECTED	1.311	1.800	2.127	2.441	2.722	1.659	1.171	0.843	0.530	0.249	14.853
AVERAGE	1.485										
PRESENT VALUE	10.875										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	2.290	1.091	0.733	0.702	0.630	0.558					
COHORT 2		2.290	1.091	0.733	0.702	0.630	0.558				
COHORT 3			2.290	1.091	0.733	0.702	0.630	0.558			
COHORT 4				2.290	1.091	0.733	0.702	0.630	0.558		
COHORT 5					2.290	1.091	0.733	0.702	0.630	0.558	
ANNUAL CASH FLOW PROJECTED	2.290	3.381	4.114	4.816	5.447	3.715	2.624	1.891	1.188	0.558	30.024
AVERAGE	3.002										
PRESENT VALUE	21.651										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	3.019	1.494	1.007	0.965	0.867	0.769					
COHORT 2		3.019	1.494	1.007	0.965	0.867	0.769				
COHORT 3			3.019	1.494	1.007	0.965	0.867	0.769			
COHORT 4				3.019	1.494	1.007	0.965	0.867	0.769		
COHORT 5					3.019	1.494	1.007	0.965	0.867	0.769	
ANNUAL CASH FLOW PROJECTED	3.019	4.513	5.521	6.486	7.353	5.102	3.608	2.601	1.636	0.769	40.608
AVERAGE	4.061										
PRESENT VALUE	29.209										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 7. 200 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.094	0.312	0.209	0.200	0.179	0.159					
COHORT 2		1.094	0.312	0.209	0.200	0.179	0.159				
COHORT 3			1.094	0.312	0.209	0.200	0.179	0.159			
COHORT 4				1.094	0.312	0.209	0.200	0.179	0.159		
COHORT 5					1.094	0.312	0.209	0.200	0.179	0.159	
ANNUAL CASH FLOW PROJECTED	1.094	1.407	1.616	1.816	1.995	1.060	0.747	0.538	0.338	0.159	10.769
AVERAGE	1.077										
PRESENT VALUE	8.016										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.803	0.696	0.467	0.447	0.400	0.354					
COHORT 2		1.803	0.696	0.467	0.447	0.400	0.354				
COHORT 3			1.803	0.696	0.467	0.447	0.400	0.354			
COHORT 4				1.803	0.696	0.467	0.447	0.400	0.354		
COHORT 5					1.803	0.696	0.467	0.447	0.400	0.354	
ANNUAL CASH FLOW PROJECTED	1.803	2.500	2.966	3.413	3.813	2.364	1.668	1.201	0.755	0.354	20.836
AVERAGE	2.084										
PRESENT VALUE	15.223										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	2.348	0.947	0.635	0.608	0.546	0.483					
COHORT 2		2.348	0.947	0.635	0.608	0.546	0.483				
COHORT 3			2.348	0.947	0.635	0.608	0.546	0.483			
COHORT 4				2.348	0.947	0.635	0.608	0.546	0.483		
COHORT 5					2.348	0.947	0.635	0.608	0.546	0.483	
ANNUAL CASH FLOW PROJECTED	2.348	3.294	3.930	4.538	5.084	3.220	2.273	1.638	1.029	0.483	27.836
AVERAGE	2.784										
PRESENT VALUE	20.280										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 8. 300 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.990	0.228	0.152	0.146	0.131	0.115					
COHORT 2		0.990	0.228	0.152	0.146	0.131	0.115				
COHORT 3			0.990	0.228	0.152	0.146	0.131	0.115			
COHORT 4				0.990	0.228	0.152	0.146	0.131	0.115		
COHORT 5					0.990	0.228	0.152	0.146	0.131	0.115	
ANNUAL CASH FLOW											
PROJECTED	0.990	1.218	1.371	1.517	1.647	0.772	0.544	0.392	0.246	0.115	8.813
AVERAGE	0.881										
PRESENT VALUE	6.647										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.572	0.508	0.340	0.325	0.291	0.257					
COHORT 2		1.572	0.508	0.340	0.325	0.291	0.257				
COHORT 3			1.572	0.508	0.340	0.325	0.291	0.257			
COHORT 4				1.572	0.508	0.340	0.325	0.291	0.257		
COHORT 5					1.572	0.508	0.340	0.325	0.291	0.257	
ANNUAL CASH FLOW											
PROJECTED	1.572	2.081	2.420	2.745	3.037	1.721	1.213	0.873	0.548	0.257	16.469
AVERAGE	1.647										
PRESENT VALUE	12.168										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	2.028	0.686	0.458	0.439	0.393	0.347					
COHORT 2		2.028	0.686	0.458	0.439	0.393	0.347				
COHORT 3			2.028	0.686	0.458	0.439	0.393	0.347			
COHORT 4				2.028	0.686	0.458	0.439	0.393	0.347		
COHORT 5					2.028	0.686	0.458	0.439	0.393	0.347	
ANNUAL CASH FLOW											
PROJECTED	2.028	2.713	3.172	3.610	4.003	2.323	1.637	1.179	0.740	0.347	21.751
AVERAGE	2.175										
PRESENT VALUE	16.026										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 9. 400 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.912	0.165	0.110	0.106	0.095	0.084					
COHORT 2		0.912	0.165	0.110	0.106	0.095	0.084				
COHORT 3			0.912	0.165	0.110	0.106	0.095	0.084			
COHORT 4				0.912	0.165	0.110	0.106	0.095	0.084		
COHORT 5					0.912	0.165	0.110	0.106	0.095	0.084	
ANNUAL CASH FLOW PROJECTED	0.912	1.077	1.188	1.293	1.388	0.559	0.394	0.284	0.178	0.084	7.357
AVERAGE	0.736										
PRESENT VALUE	5.626										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.399	0.368	0.246	0.235	0.211	0.186					
COHORT 2		1.399	0.368	0.246	0.235	0.211	0.186				
COHORT 3			1.399	0.368	0.246	0.235	0.211	0.186			
COHORT 4				1.399	0.368	0.246	0.235	0.211	0.186		
COHORT 5					1.399	0.368	0.246	0.235	0.211	0.186	
ANNUAL CASH FLOW PROJECTED	1.399	1.766	2.012	2.247	2.458	1.245	0.877	0.632	0.397	0.186	13.219
AVERAGE	1.322										
PRESENT VALUE	9.891										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.794	0.496	0.332	0.317	0.284	0.251					
COHORT 2		1.794	0.496	0.332	0.317	0.284	0.251				
COHORT 3			1.794	0.496	0.332	0.317	0.284	0.251			
COHORT 4				1.794	0.496	0.332	0.317	0.284	0.251		
COHORT 5					1.794	0.496	0.332	0.317	0.284	0.251	
ANNUAL CASH FLOW PROJECTED	1.794	2.290	2.622	2.939	3.224	1.681	1.185	0.853	0.536	0.251	17.374
AVERAGE	1.737										
PRESENT VALUE	12.959										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 10. 500 MICROWATT PER SQ. CM

LOW COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.878	0.137	0.092	0.088	0.079	0.069					
COHORT 2		0.878	0.137	0.092	0.088	0.079	0.069				
COHORT 3			0.878	0.137	0.092	0.088	0.079	0.069			
COHORT 4				0.878	0.137	0.092	0.088	0.079	0.069		
COHORT 5					0.878	0.137	0.092	0.088	0.079	0.069	
ANNUAL CASH FLOW PROJECTED	0.878	1.015	1.107	1.194	1.273	0.464	0.327	0.236	0.148	0.069	6.712
AVERAGE	0.671										
PRESENT VALUE	5.174										

MEDIUM COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.322	0.306	0.204	0.195	0.175	0.155					
COHORT 2		1.322	0.306	0.204	0.195	0.175	0.155				
COHORT 3			1.322	0.306	0.204	0.195	0.175	0.155			
COHORT 4				1.322	0.306	0.204	0.195	0.175	0.155		
COHORT 5					1.322	0.306	0.204	0.195	0.175	0.155	
ANNUAL CASH FLOW PROJECTED	1.322	1.628	1.832	2.027	2.202	1.035	0.729	0.525	0.330	0.155	11.785
AVERAGE	1.179										
PRESENT VALUE	8.886										

HIGH COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.690	0.413	0.276	0.264	0.236	0.209					
COHORT 2		1.690	0.413	0.276	0.264	0.236	0.209				
COHORT 3			1.690	0.413	0.276	0.264	0.236	0.209			
COHORT 4				1.690	0.413	0.276	0.264	0.236	0.209		
COHORT 5					1.690	0.413	0.276	0.264	0.236	0.209	
ANNUAL CASH FLOW PROJECTED	1.690	2.103	2.379	2.642	2.879	1.397	0.985	0.709	0.445	0.209	15.438
AVERAGE	1.544										
PRESENT VALUE	11.603										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 11. 600 MICROWATT PER SQ. CM

LOW COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.848	0.113	0.076	0.072	0.065	0.057					
COHORT 2		0.848	0.113	0.076	0.072	0.065	0.057				
COHORT 3			0.848	0.113	0.076	0.072	0.065	0.057			
COHORT 4				0.848	0.113	0.076	0.072	0.065	0.057		
COHORT 5					0.848	0.113	0.076	0.072	0.065	0.057	
ANNUAL CASH FLOW PROJECTED	0.848	0.962	1.037	1.110	1.175	0.384	0.270	0.195	0.122	0.057	6.161
AVERAGE	0.616										
PRESENT VALUE	4.788										

MEDIUM COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.257	0.253	0.169	0.162	0.145	0.128					
COHORT 2		1.257	0.253	0.169	0.162	0.145	0.128				
COHORT 3			1.257	0.253	0.169	0.162	0.145	0.128			
COHORT 4				1.257	0.253	0.169	0.162	0.145	0.128		
COHORT 5					1.257	0.253	0.169	0.162	0.145	0.128	
ANNUAL CASH FLOW PROJECTED	1.257	1.510	1.679	1.840	1.985	0.856	0.603	0.434	0.273	0.128	10.566
AVERAGE	1.057										
PRESENT VALUE	8.032										

HIGH COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.602	0.341	0.228	0.218	0.195	0.173					
COHORT 2		1.602	0.341	0.228	0.218	0.195	0.173				
COHORT 3			1.602	0.341	0.228	0.218	0.195	0.173			
COHORT 4				1.602	0.341	0.228	0.218	0.195	0.173		
COHORT 5					1.602	0.341	0.228	0.218	0.195	0.173	
ANNUAL CASH FLOW PROJECTED	1.602	1.944	2.172	2.390	2.585	1.156	0.814	0.586	0.368	0.173	13.790
AVERAGE	1.379										
PRESENT VALUE	10.448										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 12. 700 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.822	0.092	0.061	0.059	0.053	0.047					
COHORT 2		0.822	0.092	0.061	0.059	0.053	0.047				
COHORT 3			0.822	0.092	0.061	0.059	0.053	0.047			
COHORT 4				0.822	0.092	0.061	0.059	0.053	0.047		
COHORT 5					0.822	0.092	0.061	0.059	0.053	0.047	
ANNUAL CASH FLOW											
PROJECTED	0.822	0.914	0.976	1.034	1.087	0.311	0.219	0.158	0.099	0.047	5.668
AVERAGE	0.567										
PRESENT VALUE	4.443										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.198	0.205	0.137	0.131	0.118	0.104					
COHORT 2		1.198	0.205	0.137	0.131	0.118	0.104				
COHORT 3			1.198	0.205	0.137	0.131	0.118	0.104			
COHORT 4				1.198	0.205	0.137	0.131	0.118	0.104		
COHORT 5					1.198	0.205	0.137	0.131	0.118	0.104	
ANNUAL CASH FLOW											
PROJECTED	1.198	1.403	1.541	1.672	1.789	0.695	0.490	0.353	0.221	0.104	9.467
AVERAGE	0.947										
PRESENT VALUE	7.262										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.523	0.277	0.185	0.177	0.159	0.140					
COHORT 2		1.523	0.277	0.185	0.177	0.159	0.140				
COHORT 3			1.523	0.277	0.185	0.177	0.159	0.140			
COHORT 4				1.523	0.277	0.185	0.177	0.159	0.140		
COHORT 5					1.523	0.277	0.185	0.177	0.159	0.140	
ANNUAL CASH FLOW											
PROJECTED	1.523	1.800	1.985	2.162	2.321	0.938	0.661	0.476	0.299	0.140	12.305
AVERAGE	1.231										
PRESENT VALUE	9.408										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 13. 800 MICROWATT PER SQ. CM

LOW COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.811	0.083	0.056	0.053	0.048	0.042					
COHORT 2		0.811	0.083	0.056	0.053	0.048	0.042				
COHORT 3			0.811	0.083	0.056	0.053	0.048	0.042			
COHORT 4				0.811	0.083	0.056	0.053	0.048	0.042		
COHORT 5					0.811	0.083	0.056	0.053	0.048	0.042	
ANNUAL CASH FLOW PROJECTED	0.811	0.894	0.950	1.003	1.051	0.281	0.198	0.143	0.090	0.042	5.463
AVERAGE	0.546										
PRESENT VALUE	4.300										

MEDIUM COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.174	0.186	0.124	0.119	0.106	0.094					
COHORT 2		1.174	0.186	0.124	0.119	0.106	0.094				
COHORT 3			1.174	0.186	0.124	0.119	0.106	0.094			
COHORT 4				1.174	0.186	0.124	0.119	0.106	0.094		
COHORT 5					1.174	0.186	0.124	0.119	0.106	0.094	
ANNUAL CASH FLOW PROJECTED	1.174	1.360	1.484	1.603	1.709	0.629	0.443	0.319	0.200	0.094	9.015
AVERAGE	0.901										
PRESENT VALUE	6.946										

HIGH COST	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.490	0.251	0.167	0.160	0.144	0.127					
COHORT 2		1.490	0.251	0.167	0.160	0.144	0.127				
COHORT 3			1.490	0.251	0.167	0.160	0.144	0.127			
COHORT 4				1.490	0.251	0.167	0.160	0.144	0.127		
COHORT 5					1.490	0.251	0.167	0.160	0.144	0.127	
ANNUAL CASH FLOW PROJECTED	1.490	1.741	1.909	2.069	2.212	0.849	0.598	0.431	0.270	0.127	11.696
AVERAGE	1.170										
PRESENT VALUE	8.981										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 14. 900 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.799	0.073	0.049	0.047	0.042	0.037					
COHORT 2		0.799	0.073	0.049	0.047	0.042	0.037				
COHORT 3			0.799	0.073	0.049	0.047	0.042	0.037			
COHORT 4				0.799	0.073	0.049	0.047	0.042	0.037		
COHORT 5					0.799	0.073	0.049	0.047	0.042	0.037	
ANNUAL CASH FLOW											
PROJECTED	0.799	0.873	0.922	0.969	1.011	0.249	0.175	0.126	0.079	0.037	5.241
AVERAGE	0.524										
PRESENT VALUE	4.145										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.147	0.164	0.110	0.105	0.094	0.083					
COHORT 2		1.147	0.164	0.110	0.105	0.094	0.083				
COHORT 3			1.147	0.164	0.110	0.105	0.094	0.083			
COHORT 4				1.147	0.164	0.110	0.105	0.094	0.083		
COHORT 5					1.147	0.164	0.110	0.105	0.094	0.083	
ANNUAL CASH FLOW											
PROJECTED	1.147	1.312	1.421	1.526	1.620	0.556	0.392	0.282	0.177	0.083	8.516
AVERAGE	0.852										
PRESENT VALUE	6.596										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.454	0.222	0.148	0.142	0.127	0.112					
COHORT 2		1.454	0.222	0.148	0.142	0.127	0.112				
COHORT 3			1.454	0.222	0.148	0.142	0.127	0.112			
COHORT 4				1.454	0.222	0.148	0.142	0.127	0.112		
COHORT 5					1.454	0.222	0.148	0.142	0.127	0.112	
ANNUAL CASH FLOW											
PROJECTED	1.454	1.676	1.824	1.966	2.093	0.750	0.529	0.381	0.239	0.112	11.024
AVERAGE	1.102										
PRESENT VALUE	8.511										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 15. 1000 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.791	0.067	0.045	0.043	0.038	0.034					
COHORT 2		0.791	0.067	0.045	0.043	0.038	0.034				
COHORT 3			0.791	0.067	0.045	0.043	0.038	0.034			
COHORT 4				0.791	0.067	0.045	0.043	0.038	0.034		
COHORT 5					0.791	0.067	0.045	0.043	0.038	0.034	
ANNUAL CASH FLOW											
PROJECTED	0.791	0.858	0.902	0.945	0.983	0.226	0.159	0.115	0.072	0.034	5.083
AVERAGE	0.508										
PRESENT VALUE	4.034										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.129	0.149	0.100	0.095	0.085	0.075					
COHORT 2		1.129	0.149	0.100	0.095	0.085	0.075				
COHORT 3			1.129	0.149	0.100	0.095	0.085	0.075			
COHORT 4				1.129	0.149	0.100	0.095	0.085	0.075		
COHORT 5					1.129	0.149	0.100	0.095	0.085	0.075	
ANNUAL CASH FLOW											
PROJECTED	1.129	1.278	1.377	1.473	1.558	0.505	0.356	0.256	0.161	0.075	8.166
AVERAGE	0.817										
PRESENT VALUE	6.351										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.429	0.201	0.134	0.128	0.115	0.102					
COHORT 2		1.429	0.201	0.134	0.128	0.115	0.102				
COHORT 3			1.429	0.201	0.134	0.128	0.115	0.102			
COHORT 4				1.429	0.201	0.134	0.128	0.115	0.102		
COHORT 5					1.429	0.201	0.134	0.128	0.115	0.102	
ANNUAL CASH FLOW											
PROJECTED	1.429	1.630	1.764	1.893	2.008	0.680	0.480	0.345	0.217	0.102	10.547
AVERAGE	1.055										
PRESENT VALUE	8.177										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 16. 2000 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.746	0.030	0.020	0.019	0.017	0.015					
COHORT 2		0.746	0.030	0.020	0.019	0.017	0.015				
COHORT 3			0.746	0.030	0.020	0.019	0.017	0.015			
COHORT 4				0.746	0.030	0.020	0.019	0.017	0.015		
COHORT 5					0.746	0.030	0.020	0.019	0.017	0.015	
ANNUAL CASH FLOW PROJECTED	0.746	0.776	0.796	0.815	0.833	0.102	0.072	0.052	0.033	0.015	4.239
AVERAGE	0.424										
PRESENT VALUE	3.442										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.028	0.067	0.045	0.043	0.038	0.034					
COHORT 2		1.028	0.067	0.045	0.043	0.038	0.034				
COHORT 3			1.028	0.067	0.045	0.043	0.038	0.034			
COHORT 4				1.028	0.067	0.045	0.043	0.038	0.034		
COHORT 5					1.028	0.067	0.045	0.043	0.038	0.034	
ANNUAL CASH FLOW PROJECTED	1.028	1.095	1.140	1.183	1.221	0.228	0.160	0.115	0.072	0.034	6.276
AVERAGE	0.628										
PRESENT VALUE	5.027										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.293	0.091	0.061	0.058	0.052	0.046					
COHORT 2		1.293	0.091	0.061	0.058	0.052	0.046				
COHORT 3			1.293	0.091	0.061	0.058	0.052	0.046			
COHORT 4				1.293	0.091	0.061	0.058	0.052	0.046		
COHORT 5					1.293	0.091	0.061	0.058	0.052	0.046	
ANNUAL CASH FLOW PROJECTED	1.293	1.384	1.444	1.502	1.554	0.307	0.216	0.156	0.098	0.046	8.001
AVERAGE	0.800										
PRESENT VALUE	6.393										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 17. 5000 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.717	0.007	0.005	0.004	0.004	0.003					
COHORT 2		0.717	0.007	0.005	0.004	0.004	0.003				
COHORT 3			0.717	0.007	0.005	0.004	0.004	0.003			
COHORT 4				0.717	0.007	0.005	0.004	0.004	0.003		
COHORT 5					0.717	0.007	0.005	0.004	0.004	0.003	
ANNUAL CASH FLOW PROJECTED	0.717	0.724	0.728	0.733	0.737	0.023	0.016	0.012	0.007	0.003	3.701
AVERAGE	0.370										
PRESENT VALUE	3.066										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.964	0.015	0.010	0.010	0.009	0.008					
COHORT 2		0.964	0.015	0.010	0.010	0.009	0.008				
COHORT 3			0.964	0.015	0.010	0.010	0.009	0.008			
COHORT 4				0.964	0.015	0.010	0.010	0.009	0.008		
COHORT 5					0.964	0.015	0.010	0.010	0.009	0.008	
ANNUAL CASH FLOW PROJECTED	0.964	0.979	0.989	0.999	1.007	0.051	0.036	0.026	0.016	0.008	5.075
AVERAGE	0.507										
PRESENT VALUE	4.186										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.206	0.021	0.014	0.013	0.012	0.010					
COHORT 2		1.206	0.021	0.014	0.013	0.012	0.010				
COHORT 3			1.206	0.021	0.014	0.013	0.012	0.010			
COHORT 4				1.206	0.021	0.014	0.013	0.012	0.010		
COHORT 5					1.206	0.021	0.014	0.013	0.012	0.010	
ANNUAL CASH FLOW PROJECTED	1.206	1.227	1.241	1.254	1.266	0.070	0.049	0.035	0.022	0.010	6.380
AVERAGE	0.638										
PRESENT VALUE	5.257										

TABLE D-2. (CONTINUED)

GUIDANCE LEVEL 18. 10000 MICROWATT PER SQ. CM

LOW COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.710	0.001	0.001	0.001	0.000	0.000					
COHORT 2		0.710	0.001	0.001	0.001	0.000	0.000				
COHORT 3			0.710	0.001	0.001	0.001	0.000	0.000			
COHORT 4				0.710	0.001	0.001	0.001	0.000	0.000		
COHORT 5					0.710	0.001	0.001	0.001	0.000	0.000	
ANNUAL CASH FLOW PROJECTED	0.710	0.711	0.711	0.712	0.712	0.003	0.002	0.001	0.001	0.000	3.563
AVERAGE	0.356										
PRESENT VALUE	2.969										

MEDIUM COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	0.947	0.002	0.001	0.001	0.001	0.001					
COHORT 2		0.947	0.002	0.001	0.001	0.001	0.001				
COHORT 3			0.947	0.002	0.001	0.001	0.001	0.001			
COHORT 4				0.947	0.002	0.001	0.001	0.001	0.001		
COHORT 5					0.947	0.002	0.001	0.001	0.001	0.001	
ANNUAL CASH FLOW PROJECTED	0.947	0.949	0.950	0.951	0.953	0.006	0.005	0.003	0.002	0.001	4.768
AVERAGE	0.477										
PRESENT VALUE	3.970										

HIGH COST

	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	TOTAL
COHORT 1	1.184	0.003	0.002	0.002	0.001	0.001					
COHORT 2		1.184	0.003	0.002	0.002	0.001	0.001				
COHORT 3			1.184	0.003	0.002	0.002	0.001	0.001			
COHORT 4				1.184	0.003	0.002	0.002	0.001	0.001		
COHORT 5					1.184	0.003	0.002	0.002	0.001	0.001	
ANNUAL CASH FLOW PROJECTED	1.184	1.187	1.188	1.190	1.192	0.009	0.006	0.004	0.003	0.001	5.964
AVERAGE	0.596										
PRESENT VALUE	4.966										

TABLE D-3. AN ESTIMATE OF THE EFFECTS ON THE AVERAGE PROFITABLE FM BROADCAST STATION OF GUIDELINES LIMITING PUBLIC EXPOSURE TO RADIOFREQUENCY RADIATION IS GIVEN FOR 3 COST LEVELS. RESULTS ARE SHOWN FOR THE AVERAGE COST OF COMPLIANCE WITH 18 SPECIFIED GUIDANCE LEVELS. IT IS ASSUMED THAT THE STATION SELECTS ONE OF FIVE COMPLIANCE MEASURES (2 THROUGH 6). NUMBERS ARE IN THOUSANDS OF DOLLARS.

GUIDANCE LEVEL 1. 1 MICROWATT PER SQ. CM LOW COST

			TIME PERIOD					
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.281	8.833	8.264	7.696	7.127	6.558	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.119	130.567	131.136	131.704	132.273	132.842	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.688	5.688	5.688	5.688	5.688	
(-) DEPRECIATION	0.	0.	5.688	8.342	7.963	7.963	7.963	
TAXABLE INCOME	139.400	137.598	130.567	128.481	129.429	129.998	130.567	
GROSS TAX	43.874	43.045	39.811	38.851	39.287	39.549	39.811	
INVESTMENT TAX CREDIT	0.	3.792	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.253	39.811	38.851	39.287	39.549	39.811	
NET INCOME	95.526	88.865	90.756	92.284	92.417	92.724	93.031	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.281	8.833	8.264	7.696	7.127	6.558	49.760
TAX SAVINGS	0.	4.621	4.063	5.023	4.587	4.325	4.063	26.681
NET COMPLIANCE MEASURE COST	0.	6.661	4.770	3.242	3.109	2.802	2.495	23.078
AVERAGE ANNUAL NET COST		3.846						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 16.242	COHORT1 19.475	COHORT2 17.704	COHORT3 16.095	COHORT4 14.632	COHORT5 13.302	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 1. 1 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					TOTAL COSTS
		0	1	2	3	4	5	
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	18.893	15.324	14.383	13.442	12.501	11.559	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	120.507	124.076	125.017	125.958	126.899	127.841	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	9.412	9.412	9.412	9.412	9.412	
(-) DEPRECIATION	0.	0.	9.412	13.804	13.177	13.177	13.177	
TAXABLE INCOME	139.400	136.194	124.076	120.625	122.194	123.135	124.076	
GROSS TAX	43.874	42.399	36.825	35.237	35.959	36.392	36.825	
INVESTMENT TAX CREDIT	0.	6.275	0.	0.	0.	0.	0.	
NET TAXES	43.874	36.125	36.825	35.237	35.959	36.392	36.825	
NET INCOME	95.526	84.383	87.251	89.780	89.999	90.508	91.016	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	18.893	15.324	14.383	13.442	12.501	11.559	86.101
TAX SAVINGS	0.	7.749	7.049	8.637	7.915	7.482	7.049	45.881
NET COMPLIANCE MEASURE COST	0.	11.143	8.275	5.746	5.527	5.018	4.510	40.220
AVERAGE ANNUAL NET COST		6.703						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 28.185	COHORT1 33.796	COHORT2 30.723	COHORT3 27.930	COHORT4 25.391	COHORT5 23.083	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 1. 1 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					
		0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	26.555	21.920	20.640	19.360	18.079	16.799	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	112.845	117.480	118.760	120.040	121.321	122.601	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	12.804	12.804	12.804	12.804	12.804	
(-) DEPRECIATION	0.	0.	12.804	18.780	17.926	17.926	17.926	
TAXABLE INCOME	139.400	134.186	117.480	112.785	114.919	116.199	117.480	
GROSS TAX	43.874	41.476	33.791	31.631	32.613	33.202	33.791	
INVESTMENT TAX CREDIT	0.	8.536	0.	0.	0.	0.	0.	
NET TAXES	43.874	32.939	33.791	31.631	32.613	33.202	33.791	
NET INCOME	95.526	79.906	83.689	87.129	87.428	88.119	88.811	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	26.555	21.920	20.640	19.360	18.079	16.799	123.353
TAX SAVINGS	0.	10.935	10.083	12.243	11.261	10.672	10.083	65.278
NET COMPLIANCE MEASURE COST	0.	15.620	11.837	8.397	8.098	7.407	6.715	58.074
AVERAGE ANNUAL NET COST		9.679						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 40.559	COHORT1 48.633	COHORT2 44.212	COHORT3 40.193	COHORT4 36.539	COHORT5 33.217	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 2. 10 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	6.216	4.253	3.976	3.698	3.420	3.143	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.184	135.147	135.424	135.702	135.980	136.257	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.775	2.775	2.775	2.775	2.775	
(-) DEPRECIATION	0.	0.	2.775	4.071	3.885	3.885	3.885	
TAXABLE INCOME	139.400	137.810	135.147	134.129	134.592	134.869	135.147	
GROSS TAX	43.874	43.143	41.918	41.449	41.662	41.790	41.918	
INVESTMENT TAX CREDIT	0.	1.850	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.292	41.918	41.449	41.662	41.790	41.918	
NET INCOME	95.526	91.892	93.229	93.975	94.040	94.190	94.339	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	6.216	4.253	3.976	3.698	3.420	3.143	24.706
TAX SAVINGS	0.	2.582	1.956	2.425	2.212	2.084	1.956	13.215
NET COMPLIANCE MEASURE COST	0.	3.634	2.297	1.551	1.486	1.336	1.187	11.491
AVERAGE ANNUAL NET COST		1.915						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 8.148	COHORT1 9.770	COHORT2 8.882	COHORT3 8.074	COHORT4 7.340	COHORT5 6.673	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 2. 10 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	12.539	9.521	8.910	8.300	7.689	7.078	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	126.861	129.879	130.490	131.100	131.711	132.322	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	6.107	6.107	6.107	6.107	6.107	
(-) DEPRECIATION	0.	0.	6.107	8.957	8.550	8.550	8.550	
TAXABLE INCOME	139.400	137.040	129.879	127.640	128.658	129.268	129.879	
GROSS TAX	43.874	42.788	39.494	38.464	38.932	39.213	39.494	
INVESTMENT TAX CREDIT	0.	4.071	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.717	39.494	38.464	38.932	39.213	39.494	
NET INCOME	95.526	88.144	90.385	92.025	92.168	92.498	92.828	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	12.539	9.521	8.910	8.300	7.689	7.078	54.036
TAX SAVINGS	0.	5.157	4.380	5.410	4.942	4.661	4.380	28.928
NET COMPLIANCE MEASURE COST	0.	7.382	5.141	3.501	3.358	3.028	2.698	25.108
AVERAGE ANNUAL NET COST		4.185						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 17.693	COHORT1 21.215	COHORT2 19.287	COHORT3 17.533	COHORT4 15.939	COHORT5 14.490	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 2. 10 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	17.442	13.528	12.681	11.833	10.985	10.137	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	121.958	125.872	126.719	127.567	128.415	129.263	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	8.479	8.479	8.479	8.479	8.479	
(-) DEPRECIATION	0.	0.	8.479	12.435	11.870	11.870	11.870	
TAXABLE INCOME	139.400	136.090	125.872	122.763	124.176	125.024	125.872	
GROSS TAX	43.874	42.351	37.651	36.221	36.871	37.261	37.651	
INVESTMENT TAX CREDIT	0.	5.652	0.	0.	0.	0.	0.	
NET TAXES	43.874	36.699	37.651	36.221	36.871	37.261	37.651	
NET INCOME	95.526	85.260	88.221	90.499	90.696	91.154	91.612	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	17.442	13.528	12.681	11.833	10.985	10.137	76.605
TAX SAVINGS	0.	7.175	6.223	7.653	7.003	6.613	6.223	40.891
NET COMPLIANCE MEASURE COST	0.	10.266	7.305	5.027	4.830	4.372	3.914	35.714
AVERAGE ANNUAL NET COST		5.952						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 25.109	COHORT1 30.107	COHORT2 27.370	COHORT3 24.882	COHORT4 22.620	COHORT5 20.564	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 3. 20 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					TOTAL COSTS
		0	1	2	3	4	5	
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	6.138	4.181	3.907	3.633	3.359	3.085	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.262	135.219	135.493	135.767	136.041	136.315	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.740	2.740	2.740	2.740	2.740	
(-) DEPRECIATION	0.	0.	2.740	4.019	3.836	3.836	3.836	
TAXABLE INCOME	139.400	137.829	135.219	134.214	134.671	134.945	135.219	
GROSS TAX	43.874	43.151	41.951	41.488	41.698	41.825	41.951	
INVESTMENT TAX CREDIT	0.	1.827	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.325	41.951	41.488	41.698	41.825	41.951	
NET INCOME	95.526	91.937	93.268	94.004	94.068	94.216	94.364	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	6.138	4.181	3.907	3.633	3.359	3.085	24.305
TAX SAVINGS	0.	2.549	1.923	2.386	2.176	2.049	1.923	13.007
NET COMPLIANCE MEASURE COST	0.	3.589	2.258	1.522	1.458	1.310	1.162	11.298
AVERAGE ANNUAL NET COST		1.883						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 8.015	COHORT1 9.610	COHORT2 8.737	COHORT3 7.942	COHORT4 7.220	COHORT5 6.564	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 3. 20 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	12.315	9.312	8.710	8.109	7.507	6.905	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	127.085	130.088	130.690	131.291	131.893	132.495	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	6.018	6.018	6.018	6.018	6.018	
(-) DEPRECIATION	0.	0.	6.018	8.826	8.425	8.425	8.425	
TAXABLE INCOME	139.400	137.115	130.088	127.881	128.884	129.486	130.088	
GROSS TAX	43.874	42.823	39.590	38.575	39.037	39.314	39.590	
INVESTMENT TAX CREDIT	0.	4.012	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.811	39.590	38.575	39.037	39.314	39.590	
NET INCOME	95.526	88.274	90.497	92.114	92.255	92.580	92.905	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	12.315	9.312	8.710	8.109	7.507	6.905	52.858
TAX SAVINGS	0.	5.063	4.284	5.299	4.837	4.560	4.284	28.327
NET COMPLIANCE MEASURE COST	0.	7.252	5.029	3.412	3.271	2.946	2.621	24.531
AVERAGE ANNUAL NET COST		4.089						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 17.297	COHORT1 20.741	COHORT2 18.855	COHORT3 17.141	COHORT4 15.583	COHORT5 14.166	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 3. 20 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	16.964	13.082	12.252	11.423	10.594	9.764	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	122.436	126.318	127.148	127.977	128.806	129.636	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	8.293	8.293	8.293	8.293	8.293	
(-) DEPRECIATION	0.	0.	8.293	12.164	11.611	11.611	11.611	
TAXABLE INCOME	139.400	136.258	126.318	123.277	124.660	125.489	126.318	
GROSS TAX	43.874	42.429	37.856	36.458	37.093	37.475	37.856	
INVESTMENT TAX CREDIT	0.	5.529	0.	0.	0.	0.	0.	
NET TAXES	43.874	36.900	37.856	36.458	37.093	37.475	37.856	
NET INCOME	95.526	85.536	88.462	90.690	90.884	91.331	91.779	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	16.964	13.082	12.252	11.423	10.594	9.764	74.079
TAX SAVINGS	0.	6.974	6.018	7.416	6.781	6.399	6.018	39.605
NET COMPLIANCE MEASURE COST	0.	9.990	7.064	4.836	4.642	4.195	3.747	34.474
AVERAGE ANNUAL NET COST		5.746						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 24.258	COHORT1 29.088	COHORT2 26.443	COHORT3 24.040	COHORT4 21.854	COHORT5 19.867	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 4. 50 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					
		0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.921	3.984	3.722	3.460	3.197	2.935	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.479	135.416	135.678	135.940	136.203	136.465	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.623	2.623	2.623	2.623	2.623	
(-) DEPRECIATION	0.	0.	2.623	3.847	3.672	3.672	3.672	
TAXABLE INCOME	139.400	137.850	135.416	134.454	134.891	135.154	135.416	
GROSS TAX	43.874	43.161	42.041	41.599	41.800	41.921	42.041	
INVESTMENT TAX CREDIT	0.	1.749	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.412	42.041	41.599	41.800	41.921	42.041	
NET INCOME	95.526	92.066	93.375	94.079	94.140	94.282	94.424	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.921	3.984	3.722	3.460	3.197	2.935	23.219
TAX SAVINGS	0.	2.462	1.833	2.275	2.074	1.953	1.833	12.429
NET COMPLIANCE MEASURE COST	0.	3.460	2.151	1.447	1.386	1.244	1.102	10.790
AVERAGE ANNUAL NET COST		1.798						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 7.661	COHORT1 9.186	COHORT2 8.351	COHORT3 7.592	COHORT4 6.902	COHORT5 6.274	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 4. 50 MICROWATT PER SQ. CM MEDIUM COST

	TIME PERIOD							
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.872	8.904	8.324	7.744	7.163	6.583	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	127.528	130.496	131.076	131.656	132.237	132.817	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.804	5.804	5.804	5.804	5.804	
(-) DEPRECIATION	0.	0.	5.804	8.512	8.125	8.125	8.125	
TAXABLE INCOME	139.400	137.201	130.496	128.368	129.335	129.915	130.496	
GROSS TAX	43.874	42.863	39.778	38.799	39.244	39.511	39.778	
INVESTMENT TAX CREDIT	0.	3.869	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.993	39.778	38.799	39.244	39.511	39.778	
NET INCOME	95.526	88.535	90.718	92.277	92.412	92.726	93.039	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.872	8.904	8.324	7.744	7.163	6.583	50.589
TAX SAVINGS	0.	4.881	4.096	5.075	4.630	4.363	4.096	27.140
NET COMPLIANCE MEASURE COST	0.	6.991	4.808	3.249	3.114	2.800	2.487	23.449
AVERAGE ANNUAL NET COST		3.908						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 16.549	COHORT1 19.844	COHORT2 18.040	COHORT3 16.400	COHORT4 14.909	COHORT5 13.553	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 4. 50 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	16.203	12.378	11.583	10.787	9.992	9.196	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	123.197	127.022	127.817	128.613	129.408	130.204	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.954	7.954	7.954	7.954	7.954	
(-) DEPRECIATION	0.	0.	7.954	11.665	11.135	11.135	11.135	
TAXABLE INCOME	139.400	136.452	127.022	124.106	125.431	126.227	127.022	
GROSS TAX	43.874	42.518	38.180	36.839	37.448	37.814	38.180	
INVESTMENT TAX CREDIT	0.	5.302	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.216	38.180	36.839	37.448	37.814	38.180	
NET INCOME	95.526	85.981	88.842	90.979	91.164	91.594	92.023	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	16.203	12.378	11.583	10.787	9.992	9.196	70.139
TAX SAVINGS	0.	6.658	5.694	7.035	6.426	6.060	5.694	37.566
NET COMPLIANCE MEASURE COST	0.	9.545	6.684	4.547	4.362	3.932	3.503	32.573
AVERAGE ANNUAL NET COST		5.429						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 22.949	COHORT1 27.517	COHORT2 25.016	COHORT3 22.741	COHORT4 20.674	COHORT5 18.795	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 5. 75 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.898	3.963	3.702	3.440	3.179	2.918	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.502	135.437	135.698	135.960	136.221	136.482	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.612	2.612	2.612	2.612	2.612	
(-) DEPRECIATION	0.	0.	2.612	3.831	3.656	3.656	3.656	
TAXABLE INCOME	139.400	137.855	135.437	134.480	134.915	135.176	135.437	
GROSS TAX	43.874	43.163	42.051	41.611	41.811	41.931	42.051	
INVESTMENT TAX CREDIT	0.	1.741	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.422	42.051	41.611	41.811	41.931	42.051	
NET INCOME	95.526	92.080	93.386	94.088	94.149	94.290	94.431	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.898	3.963	3.702	3.440	3.179	2.918	23.100
TAX SAVINGS	0.	2.452	1.823	2.263	2.063	1.943	1.823	12.367
NET COMPLIANCE MEASURE COST	0.	3.446	2.140	1.438	1.377	1.236	1.095	10.733
AVERAGE ANNUAL NET COST		1.789						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 7.622	COHORT1 9.139	COHORT2 8.308	COHORT3 7.553	COHORT4 6.866	COHORT5 6.242	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 5. 75 MICROWATT PER SQ. CM MEDIUM COST

			TIME PERIOD					
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.832	8.867	8.288	7.709	7.130	6.551	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	127.568	130.533	131.112	131.691	132.270	132.849	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.791	5.791	5.791	5.791	5.791	
(-) DEPRECIATION	0.	0.	5.791	8.494	8.108	8.108	8.108	
TAXABLE INCOME	139.400	137.220	130.533	128.410	129.375	129.954	130.533	
GROSS TAX	43.874	42.871	39.795	38.818	39.262	39.529	39.795	
INVESTMENT TAX CREDIT	0.	3.861	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.010	39.795	38.818	39.262	39.529	39.795	
NET INCOME	95.526	88.558	90.738	92.294	92.429	92.742	93.054	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.832	8.867	8.288	7.709	7.130	6.551	50.376
TAX SAVINGS	0.	4.864	4.079	5.056	4.612	4.345	4.079	27.034
NET COMPLIANCE MEASURE COST	0.	6.968	4.788	3.232	3.097	2.784	2.472	23.342
AVERAGE ANNUAL NET COST		3.890						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 16.476	COHORT1 19.756	COHORT2 17.960	COHORT3 16.327	COHORT4 14.843	COHORT5 13.494	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 5. 75 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					TOTAL COSTS
		0	1	2	3	4	5	
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	16.116	12.295	11.502	10.710	9.917	9.124	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	123.284	127.105	127.898	128.690	129.483	130.276	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.926	7.926	7.926	7.926	7.926	
(-) DEPRECIATION	0.	0.	7.926	11.625	11.096	11.096	11.096	
TAXABLE INCOME	139.400	136.494	127.105	124.199	125.520	126.312	127.105	
GROSS TAX	43.874	42.537	38.218	36.881	37.489	37.854	38.218	
INVESTMENT TAX CREDIT	0.	5.284	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.253	38.218	36.881	37.489	37.854	38.218	
NET INCOME	95.526	86.031	88.887	91.016	91.201	91.629	92.057	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	16.116	12.295	11.502	10.710	9.917	9.124	69.664
TAX SAVINGS	0.	6.621	5.656	6.993	6.385	6.020	5.656	37.330
NET COMPLIANCE MEASURE COST	0.	9.495	6.639	4.510	4.325	3.897	3.469	32.335
AVERAGE ANNUAL NET COST		5.389						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 22.786	COHORT1 27.323	COHORT2 24.839	COHORT3 22.581	COHORT4 20.528	COHORT5 18.662	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 6. 100 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.818	3.889	3.631	3.373	3.115	2.858	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.582	135.511	135.769	136.027	136.285	136.542	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.577	2.577	2.577	2.577	2.577	
(-) DEPRECIATION	0.	0.	2.577	3.780	3.608	3.608	3.608	
TAXABLE INCOME	139.400	137.877	135.511	134.567	134.996	135.254	135.511	
GROSS TAX	43.874	43.173	42.085	41.651	41.848	41.967	42.085	
INVESTMENT TAX CREDIT	0.	1.718	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.455	42.085	41.651	41.848	41.967	42.085	
NET INCOME	95.526	92.127	93.426	94.119	94.179	94.318	94.457	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.818	3.889	3.631	3.373	3.115	2.858	22.684
TAX SAVINGS	0.	2.419	1.789	2.223	2.026	1.907	1.789	12.153
NET COMPLIANCE MEASURE COST	0.	3.399	2.100	1.407	1.347	1.208	1.069	10.531
AVERAGE ANNUAL NET COST		1.755						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 7.483	COHORT1 8.973	COHORT2 8.157	COHORT3 7.416	COHORT4 6.741	COHORT5 6.129	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 6. 100 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.641	8.686	8.113	7.540	6.968	6.395	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	127.759	130.714	131.287	131.860	132.432	133.005	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.729	5.729	5.729	5.729	5.729	
(-) DEPRECIATION	0.	0.	5.729	8.403	8.021	8.021	8.021	
TAXABLE INCOME	139.400	137.308	130.714	128.613	129.568	130.141	130.714	
GROSS TAX	43.874	42.912	39.878	38.912	39.351	39.615	39.878	
INVESTMENT TAX CREDIT	0.	3.820	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.092	39.878	38.912	39.351	39.615	39.878	
NET INCOME	95.526	88.667	90.835	92.375	92.508	92.818	93.127	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.641	8.686	8.113	7.540	6.968	6.395	49.344
TAX SAVINGS	0.	4.782	3.996	4.962	4.523	4.259	3.996	26.518
NET COMPLIANCE MEASURE COST	0.	6.859	4.691	3.151	3.018	2.708	2.399	22.826
AVERAGE ANNUAL NET COST		3.804						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 16.124	COHORT1 19.334	COHORT2 17.577	COHORT3 15.979	COHORT4 14.526	COHORT5 13.206	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 6. 100 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	15.689	11.891	11.112	10.333	9.554	8.775	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	123.711	127.509	128.288	129.067	129.846	130.625	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.789	7.789	7.789	7.789	7.789	
(-) DEPRECIATION	0.	0.	7.789	11.423	10.904	10.904	10.904	
TAXABLE INCOME	139.400	136.692	127.509	124.653	125.952	126.730	127.509	
GROSS TAX	43.874	42.628	38.404	37.091	37.688	38.046	38.404	
INVESTMENT TAX CREDIT	0.	5.192	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.436	38.404	37.091	37.688	38.046	38.404	
NET INCOME	95.526	86.275	89.105	91.198	91.379	91.800	92.220	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	15.689	11.891	11.112	10.333	9.554	8.775	67.354
TAX SAVINGS	0.	6.438	5.470	6.783	6.186	5.828	5.470	36.175
NET COMPLIANCE MEASURE COST	0.	9.251	6.421	4.328	4.147	3.726	3.306	31.179
AVERAGE ANNUAL NET COST		5.196						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 21.999	COHORT1 26.378	COHORT2 23.980	COHORT3 21.800	COHORT4 19.818	COHORT5 18.017	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 7. 200 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.739	3.817	3.563	3.309	3.056	2.802	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.661	135.583	135.837	136.091	136.344	136.598	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.537	2.537	2.537	2.537	2.537	
(-) DEPRECIATION	0.	0.	2.537	3.721	3.551	3.551	3.551	
TAXABLE INCOME	139.400	137.889	135.583	134.653	135.076	135.330	135.583	
GROSS TAX	43.874	43.179	42.118	41.691	41.885	42.002	42.118	
INVESTMENT TAX CREDIT	0.	1.691	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.488	42.118	41.691	41.885	42.002	42.118	
NET INCOME	95.526	92.173	93.465	94.147	94.206	94.343	94.480	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.739	3.817	3.563	3.309	3.056	2.802	22.285
TAX SAVINGS	0.	2.386	1.756	2.183	1.989	1.872	1.756	11.942
NET COMPLIANCE MEASURE COST	0.	3.353	2.061	1.379	1.320	1.183	1.046	10.343
AVERAGE ANNUAL NET COST		1.724						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 7.352	COHORT1 8.816	COHORT2 8.015	COHORT3 7.286	COHORT4 6.624	COHORT5 6.022	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 7. 200 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.444	8.504	7.940	7.376	6.812	6.248	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	127.956	130.896	131.460	132.024	132.588	133.152	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.639	5.639	5.639	5.639	5.639	
(-) DEPRECIATION	0.	0.	5.639	8.270	7.894	7.894	7.894	
TAXABLE INCOME	139.400	137.354	130.896	128.829	129.768	130.332	130.896	
GROSS TAX	43.874	42.933	39.962	39.011	39.443	39.703	39.962	
INVESTMENT TAX CREDIT	0.	3.759	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.174	39.962	39.011	39.443	39.703	39.962	
NET INCOME	95.526	88.783	90.934	92.449	92.580	92.885	93.189	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.444	8.504	7.940	7.376	6.812	6.248	48.324
TAX SAVINGS	0.	4.700	3.912	4.863	4.431	4.171	3.912	25.988
NET COMPLIANCE MEASURE COST	0.	6.743	4.592	3.077	2.946	2.641	2.337	22.336
AVERAGE ANNUAL NET COST		3.723						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 15.786	COHORT1 18.929	COHORT2 17.208	COHORT3 15.644	COHORT4 14.221	COHORT5 12.929	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 7. 200 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	15.336	11.563	10.799	10.035	9.271	8.507	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	124.064	127.837	128.601	129.365	130.129	130.893	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.640	7.640	7.640	7.640	7.640	
(-) DEPRECIATION	0.	0.	7.640	11.206	10.697	10.697	10.697	
TAXABLE INCOME	139.400	136.798	127.837	125.036	126.309	127.073	127.837	
GROSS TAX	43.874	42.677	38.555	37.266	37.852	38.204	38.555	
INVESTMENT TAX CREDIT	0.	5.094	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.583	38.555	37.266	37.852	38.204	38.555	
NET INCOME	95.526	86.480	89.282	91.335	91.513	91.926	92.338	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	15.336	11.563	10.799	10.035	9.271	8.507	65.511
TAX SAVINGS	0.	6.291	5.319	6.608	6.022	5.670	5.319	35.229
NET COMPLIANCE MEASURE COST	0.	9.046	6.244	4.191	4.013	3.600	3.188	30.282
AVERAGE ANNUAL NET COST		5.047						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 21.383	COHORT1 25.640	COHORT2 23.309	COHORT3 21.190	COHORT4 19.263	COHORT5 17.512	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 8. 300 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.671	3.753	3.503	3.253	3.003	2.753	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.729	135.647	135.897	136.147	136.397	136.647	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.502	2.502	2.502	2.502	2.502	
(-) DEPRECIATION	0.	0.	2.502	3.670	3.503	3.503	3.503	
TAXABLE INCOME	139.400	137.900	135.647	134.729	135.146	135.396	135.647	
GROSS TAX	43.874	43.184	42.147	41.725	41.917	42.032	42.147	
INVESTMENT TAX CREDIT	0.	1.668	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.516	42.147	41.725	41.917	42.032	42.147	
NET INCOME	95.526	92.214	93.499	94.171	94.230	94.365	94.500	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.671	3.753	3.503	3.253	3.003	2.753	21.936
TAX SAVINGS	0.	2.358	1.727	2.149	1.957	1.842	1.727	11.759
NET COMPLIANCE MEASURE COST	0.	3.312	2.027	1.355	1.296	1.161	1.026	10.177
AVERAGE ANNUAL NET COST		1.696						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 7.238	COHORT1 8.678	COHORT2 7.889	COHORT3 7.172	COHORT4 6.520	COHORT5 5.927	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 8. 300 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.294	8.365	7.807	7.250	6.692	6.134	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.106	131.035	131.593	132.150	132.708	133.266	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.577	5.577	5.577	5.577	5.577	
(-) DEPRECIATION	0.	0.	5.577	8.179	7.807	7.807	7.807	
TAXABLE INCOME	139.400	137.400	131.035	128.990	129.920	130.477	131.035	
GROSS TAX	43.874	42.954	40.026	39.086	39.513	39.770	40.026	
INVESTMENT TAX CREDIT	0.	3.718	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.236	40.026	39.086	39.513	39.770	40.026	
NET INCOME	95.526	88.869	91.009	92.507	92.637	92.938	93.240	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.294	8.365	7.807	7.250	6.692	6.134	47.543
TAX SAVINGS	0.	4.638	3.848	4.788	4.361	4.104	3.848	25.587
NET COMPLIANCE MEASURE COST	0.	6.657	4.517	3.019	2.889	2.588	2.286	21.955
AVERAGE ANNUAL NET COST		3.659						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 15.525	COHORT1 18.615	COHORT2 16.923	COHORT3 15.385	COHORT4 13.986	COHORT5 12.715	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 8. 300 MICROWATT PER SQ. CM MEDIUM COST

			TIME PERIOD					
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.294	8.365	7.807	7.250	6.692	6.134	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.106	131.035	131.593	132.150	132.708	133.266	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.577	5.577	5.577	5.577	5.577	
(-) DEPRECIATION	0.	0.	5.577	8.179	7.807	7.807	7.807	
TAXABLE INCOME	139.400	137.400	131.035	128.990	129.920	130.477	131.035	
GROSS TAX	43.874	42.954	40.026	39.086	39.513	39.770	40.026	
INVESTMENT TAX CREDIT	0.	3.718	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.236	40.026	39.086	39.513	39.770	40.026	
NET INCOME	95.526	88.869	91.009	92.507	92.637	92.938	93.240	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.294	8.365	7.807	7.250	6.692	6.134	47.543
TAX SAVINGS	0.	4.638	3.848	4.788	4.361	4.104	3.848	25.587
NET COMPLIANCE MEASURE COST	0.	6.657	4.517	3.019	2.889	2.588	2.286	21.955
AVERAGE ANNUAL NET COST		3.659						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 15.525	COHORT1 18.615	COHORT2 16.923	COHORT3 15.385	COHORT4 13.986	COHORT5 12.715	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 8. 300 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	15.040	11.286	10.534	9.781	9.029	8.276	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	124.360	128.114	128.866	129.619	130.371	131.124	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.524	7.524	7.524	7.524	7.524	
(-) DEPRECIATION	0.	0.	7.524	11.035	10.534	10.534	10.534	
TAXABLE INCOME	139.400	136.900	128.114	125.355	126.609	127.362	128.114	
GROSS TAX	43.874	42.724	38.682	37.413	37.990	38.336	38.682	
INVESTMENT TAX CREDIT	0.	5.016	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.708	38.682	37.413	37.990	38.336	38.682	
NET INCOME	95.526	86.652	89.432	91.453	91.629	92.035	92.441	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	15.040	11.286	10.534	9.781	9.029	8.276	63.946
TAX SAVINGS	0.	6.166	5.192	6.461	5.884	5.538	5.192	34.431
NET COMPLIANCE MEASURE COST	0.	8.874	6.094	4.073	3.897	3.491	3.085	29.515
AVERAGE ANNUAL NET COST		4.919						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 20.857	COHORT1 25.009	COHORT2 22.735	COHORT3 20.668	COHORT4 18.789	COHORT5 17.081	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 9. 400 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.586	3.678	3.433	3.187	2.942	2.697	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.814	135.722	135.967	136.213	136.458	136.703	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.452	2.452	2.452	2.452	2.452	
(-) DEPRECIATION	0.	0.	2.452	3.596	3.433	3.433	3.433	
TAXABLE INCOME	139.400	137.900	135.722	134.823	135.232	135.477	135.722	
GROSS TAX	43.874	43.184	42.182	41.769	41.957	42.069	42.182	
INVESTMENT TAX CREDIT	0.	1.635	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.549	42.182	41.769	41.957	42.069	42.182	
NET INCOME	95.526	92.264	93.540	94.199	94.256	94.388	94.521	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.586	3.678	3.433	3.187	2.942	2.697	21.523
TAX SAVINGS	0.	2.325	1.692	2.105	1.917	1.805	1.692	11.535
NET COMPLIANCE MEASURE COST	0.	3.262	1.986	1.327	1.270	1.138	1.005	9.988
AVERAGE ANNUAL NET COST		1.665						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 7.105	COHORT1 8.520	COHORT2 7.745	COHORT3 7.041	COHORT4 6.401	COHORT5 5.819	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 9. 400 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.103	8.192	7.646	7.100	6.554	6.008	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.297	131.208	131.754	132.300	132.846	133.392	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.462	5.462	5.462	5.462	5.462	
(-) DEPRECIATION	0.	0.	5.462	8.010	7.646	7.646	7.646	
TAXABLE INCOME	139.400	137.400	131.208	129.205	130.115	130.661	131.208	
GROSS TAX	43.874	42.954	40.105	39.184	39.603	39.854	40.105	
INVESTMENT TAX CREDIT	0.	3.641	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.313	40.105	39.184	39.603	39.854	40.105	
NET INCOME	95.526	88.984	91.102	92.569	92.697	92.992	93.287	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.103	8.192	7.646	7.100	6.554	6.008	46.603
TAX SAVINGS	0.	4.561	3.769	4.690	4.271	4.020	3.769	25.078
NET COMPLIANCE MEASURE COST	0.	6.542	4.424	2.957	2.829	2.534	2.239	21.525
AVERAGE ANNUAL NET COST		3.587						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 15.223	COHORT1 18.254	COHORT2 16.594	COHORT3 15.086	COHORT4 13.714	COHORT5 12.467	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 9. 400 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	14.789	11.060	10.323	9.586	8.848	8.111	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	124.611	128.340	129.077	129.814	130.552	131.289	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.374	7.374	7.374	7.374	7.374	
(-) DEPRECIATION	0.	0.	7.374	10.815	10.323	10.323	10.323	
TAXABLE INCOME	139.400	136.900	128.340	125.636	126.865	127.602	128.340	
GROSS TAX	43.874	42.724	38.786	37.543	38.108	38.447	38.786	
INVESTMENT TAX CREDIT	0.	4.916	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.808	38.786	37.543	38.108	38.447	38.786	
NET INCOME	95.526	86.802	89.553	91.534	91.706	92.105	92.503	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	14.789	11.060	10.323	9.586	8.848	8.111	62.718
TAX SAVINGS	0.	6.066	5.088	6.331	5.766	5.427	5.088	33.766
NET COMPLIANCE MEASURE COST	0.	8.724	5.973	3.992	3.820	3.421	3.023	28.952
AVERAGE ANNUAL NET COST		4.825						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 20.462	COHORT1 24.536	COHORT2 22.305	COHORT3 20.277	COHORT4 18.434	COHORT5 16.758	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 10. 500 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.565	3.659	3.415	3.171	2.927	2.683	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.835	135.741	135.985	136.229	136.473	136.717	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.439	2.439	2.439	2.439	2.439	
(-) DEPRECIATION	0.	0.	2.439	3.578	3.415	3.415	3.415	
TAXABLE INCOME	139.400	137.900	135.741	134.847	135.253	135.497	135.741	
GROSS TAX	43.874	43.184	42.191	41.779	41.966	42.079	42.191	
INVESTMENT TAX CREDIT	0.	1.626	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.558	42.191	41.779	41.966	42.079	42.191	
NET INCOME	95.526	92.277	93.550	94.206	94.262	94.394	94.526	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.565	3.659	3.415	3.171	2.927	2.683	21.421
TAX SAVINGS	0.	2.316	1.683	2.095	1.908	1.795	1.683	11.480
NET COMPLIANCE MEASURE COST	0.	3.249	1.976	1.320	1.264	1.132	1.000	9.941
AVERAGE ANNUAL NET COST		1.657						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 7.072	COHORT1 8.480	COHORT2 7.709	COHORT3 7.008	COHORT4 6.371	COHORT5 5.792	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 10. 500 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	11.060	8.154	7.610	7.067	6.523	5.980	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.340	131.246	131.790	132.333	132.877	133.420	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.436	5.436	5.436	5.436	5.436	
(-) DEPRECIATION	0.	0.	5.436	7.973	7.610	7.610	7.610	
TAXABLE INCOME	139.400	137.400	131.246	129.253	130.159	130.702	131.246	
GROSS TAX	43.874	42.954	40.123	39.206	39.623	39.873	40.123	
INVESTMENT TAX CREDIT	0.	3.624	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.330	40.123	39.206	39.623	39.873	40.123	
NET INCOME	95.526	89.010	91.123	92.583	92.710	93.004	93.297	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	11.060	8.154	7.610	7.067	6.523	5.980	46.394
TAX SAVINGS	0.	4.544	3.751	4.668	4.251	4.001	3.751	24.965
NET COMPLIANCE MEASURE COST	0.	6.516	4.403	2.943	2.816	2.522	2.229	21.429
AVERAGE ANNUAL NET COST		3.571						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 15.156	COHORT1 18.173	COHORT2 16.521	COHORT3 15.019	COHORT4 13.654	COHORT5 12.413	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 10. 500 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	14.731	11.008	10.274	9.541	8.807	8.073	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	124.669	128.392	129.126	129.859	130.593	131.327	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.339	7.339	7.339	7.339	7.339	
(-) DEPRECIATION	0.	0.	7.339	10.764	10.274	10.274	10.274	
TAXABLE INCOME	139.400	136.900	128.392	125.701	126.924	127.658	128.392	
GROSS TAX	43.874	42.724	38.810	37.572	38.135	38.473	38.810	
INVESTMENT TAX CREDIT	0.	4.893	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.831	38.810	37.572	38.135	38.473	38.810	
NET INCOME	95.526	86.837	89.582	91.553	91.724	92.121	92.517	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	14.731	11.008	10.274	9.541	8.807	8.073	62.434
TAX SAVINGS	0.	6.043	5.064	6.302	5.739	5.401	5.064	33.612
NET COMPLIANCE MEASURE COST	0.	8.689	5.944	3.973	3.802	3.405	3.009	28.822
AVERAGE ANNUAL NET COST		4.804						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 20.371	COHORT1 24.427	COHORT2 22.206	COHORT3 20.187	COHORT4 18.352	COHORT5 16.684	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 11. 600 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.476	3.579	3.340	3.101	2.863	2.624	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	133.924	135.821	136.060	136.299	136.537	136.776	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.386	2.386	2.386	2.386	2.386	
(-) DEPRECIATION	0.	0.	2.386	3.499	3.340	3.340	3.340	
TAXABLE INCOME	139.400	137.900	135.821	134.947	135.344	135.583	135.821	
GROSS TAX	43.874	43.184	42.228	41.826	42.008	42.118	42.228	
INVESTMENT TAX CREDIT	0.	1.590	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.594	42.228	41.826	42.008	42.118	42.228	
NET INCOME	95.526	92.330	93.594	94.235	94.290	94.419	94.548	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.476	3.579	3.340	3.101	2.863	2.624	20.983
TAX SAVINGS	0.	2.280	1.646	2.048	1.866	1.756	1.646	11.243
NET COMPLIANCE MEASURE COST	0.	3.196	1.932	1.291	1.236	1.107	0.978	9.740
AVERAGE ANNUAL NET COST		1.623						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 6.932	COHORT1 8.312	COHORT2 7.556	COHORT3 6.869	COHORT4 6.245	COHORT5 5.677	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 11. 600 MICROWATT PER SQ. CM MEDIUM COST

	TIME PERIOD							
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	10.874	7.987	7.454	6.922	6.389	5.857	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.526	131.413	131.946	132.478	133.011	133.543	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.325	5.325	5.325	5.325	5.325	
(-) DEPRECIATION	0.	0.	5.325	7.809	7.454	7.454	7.454	
TAXABLE INCOME	139.400	137.400	131.413	129.461	130.348	130.881	131.413	
GROSS TAX	43.874	42.954	40.200	39.302	39.710	39.955	40.200	
INVESTMENT TAX CREDIT	0.	3.550	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.404	40.200	39.302	39.710	39.955	40.200	
NET INCOME	95.526	89.121	91.213	92.644	92.768	93.055	93.343	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	10.874	7.987	7.454	6.922	6.389	5.857	45.484
TAX SAVINGS	0.	4.470	3.674	4.572	4.164	3.919	3.674	24.472
NET COMPLIANCE MEASURE COST	0.	6.405	4.313	2.882	2.758	2.471	2.183	21.011
AVERAGE ANNUAL NET COST		3.502						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 14.864	COHORT1 17.823	COHORT2 16.202	COHORT3 14.729	COHORT4 13.390	COHORT5 12.173	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 11. 600 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	14.477	10.780	10.061	9.342	8.624	7.905	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	124.923	128.620	129.339	130.058	130.776	131.495	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	7.186	7.186	7.186	7.186	7.186	
(-) DEPRECIATION	0.	0.	7.186	10.540	10.061	10.061	10.061	
TAXABLE INCOME	139.400	136.900	128.620	125.985	127.183	127.902	128.620	
GROSS TAX	43.874	42.724	38.915	37.703	38.254	38.585	38.915	
INVESTMENT TAX CREDIT	0.	4.791	0.	0.	0.	0.	0.	
NET TAXES	43.874	37.933	38.915	37.703	38.254	38.585	38.915	
NET INCOME	95.526	86.990	89.705	91.636	91.803	92.191	92.580	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	14.477	10.780	10.061	9.342	8.624	7.905	61.189
TAX SAVINGS	0.	5.941	4.959	6.171	5.620	5.289	4.959	32.938
NET COMPLIANCE MEASURE COST	0.	8.536	5.821	3.890	3.723	3.335	2.946	28.251
AVERAGE ANNUAL NET COST		4.709						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 19.971	COHORT1 23.947	COHORT2 21.770	COHORT3 19.791	COHORT4 17.992	COHORT5 16.356	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 12. 700 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.329	3.447	3.217	2.987	2.757	2.527	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	134.070	135.953	136.183	136.413	136.643	136.873	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.298	2.298	2.298	2.298	2.298	
(-) DEPRECIATION	0.	0.	2.298	3.370	3.217	3.217	3.217	
TAXABLE INCOME	139.400	137.900	135.953	135.111	135.494	135.724	135.953	
GROSS TAX	43.874	43.184	42.289	41.901	42.077	42.183	42.289	
INVESTMENT TAX CREDIT	0.	1.532	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.652	42.289	41.901	42.077	42.183	42.289	
NET INCOME	95.526	92.418	93.665	94.282	94.336	94.460	94.584	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.329	3.447	3.217	2.987	2.757	2.527	20.265
TAX SAVINGS	0.	2.222	1.585	1.973	1.797	1.691	1.585	10.853
NET COMPLIANCE MEASURE COST	0.	3.108	1.861	1.244	1.190	1.066	0.942	9.411
AVERAGE ANNUAL NET COST		1.569						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 6.701	COHORT1 8.035	COHORT2 7.304	COHORT3 6.640	COHORT4 6.037	COHORT5 5.488	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 12. 700 MICROWATT PER SQ. CM MEDIUM COST

			TIME PERIOD					
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	10.547	7.693	7.180	6.667	6.154	5.641	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.853	131.707	132.220	132.733	133.246	133.759	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.128	5.128	5.128	5.128	5.128	
(-) DEPRECIATION	0.	0.	5.128	7.522	7.180	7.180	7.180	
TAXABLE INCOME	139.400	137.400	131.707	129.827	130.682	131.195	131.707	
GROSS TAX	43.874	42.954	40.335	39.470	39.864	40.099	40.335	
INVESTMENT TAX CREDIT	0.	3.419	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.535	40.335	39.470	39.864	40.099	40.335	
NET INCOME	95.526	89.318	91.372	92.750	92.869	93.146	93.423	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	10.547	7.693	7.180	6.667	6.154	5.641	43.882
TAX SAVINGS	0.	4.339	3.539	4.404	4.010	3.775	3.539	23.605
NET COMPLIANCE MEASURE COST	0.	6.208	4.154	2.776	2.657	2.380	2.103	20.277
AVERAGE ANNUAL NET COST		3.380						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 14.349	COHORT1 17.206	COHORT2 15.642	COHORT3 14.220	COHORT4 12.927	COHORT5 11.752	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 12. 700 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					TOTAL COSTS
		0	1	2	3	4	5	
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	14.034	10.381	9.689	8.997	8.305	7.613	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	125.366	129.019	129.711	130.403	131.095	131.787	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	6.920	6.920	6.920	6.920	6.920	
(-) DEPRECIATION	0.	0.	6.920	10.150	9.689	9.689	9.689	
TAXABLE INCOME	139.400	136.900	129.019	126.482	127.635	128.327	129.019	
GROSS TAX	43.874	42.724	39.099	37.932	38.462	38.781	39.099	
INVESTMENT TAX CREDIT	0.	4.614	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.110	39.099	37.932	38.462	38.781	39.099	
NET INCOME	95.526	87.256	89.920	91.780	91.941	92.315	92.689	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	14.034	10.381	9.689	8.997	8.305	7.613	59.017
TAX SAVINGS	0.	5.764	4.775	5.942	5.412	5.093	4.775	31.762
NET COMPLIANCE MEASURE COST	0.	8.270	5.606	3.746	3.585	3.211	2.837	27.256
AVERAGE ANNUAL NET COST		4.543						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 19.274	COHORT1 23.111	COHORT2 21.010	COHORT3 19.100	COHORT4 17.364	COHORT5 15.785	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 13. 800 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.250	3.375	3.150	2.925	2.700	2.475	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	134.150	136.025	136.250	136.475	136.700	136.925	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.250	2.250	2.250	2.250	2.250	
(-) DEPRECIATION	0.	0.	2.250	3.300	3.150	3.150	3.150	
TAXABLE INCOME	139.400	137.900	136.025	135.200	135.575	135.800	136.025	
GROSS TAX	43.874	43.184	42.321	41.942	42.114	42.218	42.321	
INVESTMENT TAX CREDIT	0.	1.500	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.684	42.321	41.942	42.114	42.218	42.321	
NET INCOME	95.526	92.466	93.703	94.308	94.360	94.482	94.603	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.250	3.375	3.150	2.925	2.700	2.475	19.877
TAX SAVINGS	0.	2.190	1.553	1.932	1.760	1.656	1.553	10.644
NET COMPLIANCE MEASURE COST	0.	3.060	1.823	1.218	1.166	1.044	0.923	9.233
AVERAGE ANNUAL NET COST		1.539						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 6.576	COHORT1 7.886	COHORT2 7.169	COHORT3 6.517	COHORT4 5.925	COHORT5 5.386	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 13. 800 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	10.380	7.542	7.040	6.537	6.034	5.531	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	129.020	131.858	132.360	132.863	133.366	133.869	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.028	5.028	5.028	5.028	5.028	
(-) DEPRECIATION	0.	0.	5.028	7.375	7.040	7.040	7.040	
TAXABLE INCOME	139.400	137.400	131.858	130.014	130.852	131.355	131.858	
GROSS TAX	43.874	42.954	40.404	39.556	39.942	40.173	40.404	
INVESTMENT TAX CREDIT	0.	3.352	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.602	40.404	39.556	39.942	40.173	40.404	
NET INCOME	95.526	89.418	91.453	92.804	92.921	93.193	93.464	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	10.380	7.542	7.040	6.537	6.034	5.531	43.064
TAX SAVINGS	0.	4.272	3.470	4.318	3.932	3.701	3.470	23.162
NET COMPLIANCE MEASURE COST	0.	6.108	4.073	2.722	2.605	2.333	2.062	19.903
AVERAGE ANNUAL NET COST		3.317						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 14.087	COHORT1 16.891	COHORT2 15.356	COHORT3 13.960	COHORT4 12.691	COHORT5 11.537	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 13. 800 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	13.810	10.179	9.500	8.822	8.143	7.465	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	125.590	129.221	129.900	130.578	131.257	131.935	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	6.786	6.786	6.786	6.786	6.786	
(-) DEPRECIATION	0.	0.	6.786	9.953	9.500	9.500	9.500	
TAXABLE INCOME	139.400	136.900	129.221	126.733	127.864	128.542	129.221	
GROSS TAX	43.874	42.724	39.192	38.047	38.567	38.879	39.192	
INVESTMENT TAX CREDIT	0.	4.524	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.200	39.192	38.047	38.567	38.879	39.192	
NET INCOME	95.526	87.390	90.029	91.853	92.011	92.377	92.744	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	13.810	10.179	9.500	8.822	8.143	7.465	57.919
TAX SAVINGS	0.	5.674	4.682	5.827	5.307	4.995	4.682	31.167
NET COMPLIANCE MEASURE COST	0.	8.136	5.497	3.673	3.515	3.149	2.782	26.752
AVERAGE ANNUAL NET COST		4.459						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 18.921	COHORT1 22.688	COHORT2 20.626	COHORT3 18.750	COHORT4 17.046	COHORT5 15.496	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 14. 900 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.220	3.348	3.125	2.902	2.678	2.455	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	134.180	136.052	136.275	136.498	136.722	136.945	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.232	2.232	2.232	2.232	2.232	
(-) DEPRECIATION	0.	0.	2.232	3.274	3.125	3.125	3.125	
TAXABLE INCOME	139.400	137.900	136.052	135.234	135.606	135.829	136.052	
GROSS TAX	43.874	43.184	42.334	41.957	42.129	42.231	42.334	
INVESTMENT TAX CREDIT	0.	1.488	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.696	42.334	41.957	42.129	42.231	42.334	
NET INCOME	95.526	92.484	93.718	94.318	94.370	94.490	94.611	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.220	3.348	3.125	2.902	2.678	2.455	19.728
TAX SAVINGS	0.	2.178	1.540	1.917	1.745	1.643	1.540	10.563
NET COMPLIANCE MEASURE COST	0.	3.042	1.808	1.208	1.156	1.036	0.915	9.165
AVERAGE ANNUAL NET COST		1.528						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 6.529	COHORT1 7.828	COHORT2 7.117	COHORT3 6.470	COHORT4 5.882	COHORT5 5.347	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 14. 900 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	10.307	7.476	6.978	6.479	5.981	5.482	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	129.093	131.924	132.422	132.921	133.419	133.918	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	4.984	4.984	4.984	4.984	4.984	
(-) DEPRECIATION	0.	0.	4.984	7.310	6.978	6.978	6.978	
TAXABLE INCOME	139.400	137.400	131.924	130.096	130.927	131.425	131.924	
GROSS TAX	43.874	42.954	40.435	39.594	39.976	40.206	40.435	
INVESTMENT TAX CREDIT	0.	3.323	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.631	40.435	39.594	39.976	40.206	40.435	
NET INCOME	95.526	89.462	91.489	92.828	92.944	93.213	93.483	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	10.307	7.476	6.978	6.479	5.981	5.482	42.703
TAX SAVINGS	0.	4.243	3.439	4.280	3.898	3.668	3.439	22.966
NET COMPLIANCE MEASURE COST	0.	6.064	4.037	2.698	2.582	2.313	2.043	19.737
AVERAGE ANNUAL NET COST		3.290						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 13.971	COHORT1 16.752	COHORT2 15.229	COHORT3 13.845	COHORT4 12.586	COHORT5 11.442	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 14. 900 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					TOTAL COSTS
		0	1	2	3	4	5	
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	13.713	10.091	9.419	8.746	8.073	7.400	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	125.687	129.309	129.981	130.654	131.327	132.000	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	6.728	6.728	6.728	6.728	6.728	
(-) DEPRECIATION	0.	0.	6.728	9.867	9.419	9.419	9.419	
TAXABLE INCOME	139.400	136.900	129.309	126.842	127.963	128.636	129.309	
GROSS TAX	43.874	42.724	39.232	38.097	38.613	38.922	39.232	
INVESTMENT TAX CREDIT	0.	4.485	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.239	39.232	38.097	38.613	38.922	39.232	
NET INCOME	95.526	87.448	90.077	91.884	92.041	92.404	92.768	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	13.713	10.091	9.419	8.746	8.073	7.400	57.442
TAX SAVINGS	0.	5.635	4.642	5.777	5.261	4.952	4.642	30.908
NET COMPLIANCE MEASURE COST	0.	8.078	5.449	3.642	3.485	3.122	2.758	26.534
AVERAGE ANNUAL NET COST		4.422						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 18.768	COHORT1 22.504	COHORT2 20.459	COHORT3 18.599	COHORT4 16.908	COHORT5 15.371	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 15. 1000 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					TOTAL COSTS
		0	1	2	3	4	5	
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	5.112	3.251	3.034	2.818	2.601	2.384	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	134.288	136.149	136.366	136.582	136.799	137.016	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	2.167	2.167	2.167	2.167	2.167	
(-) DEPRECIATION	0.	0.	2.167	3.179	3.034	3.034	3.034	
TAXABLE INCOME	139.400	137.900	136.149	135.354	135.715	135.932	136.149	
GROSS TAX	43.874	43.184	42.378	42.013	42.179	42.279	42.378	
INVESTMENT TAX CREDIT	0.	1.445	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.739	42.378	42.013	42.179	42.279	42.378	
NET INCOME	95.526	92.549	93.770	94.353	94.403	94.520	94.637	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	5.112	3.251	3.034	2.818	2.601	2.384	19.201
TAX SAVINGS	0.	2.135	1.496	1.861	1.695	1.595	1.496	10.278
NET COMPLIANCE MEASURE COST	0.	2.977	1.756	1.173	1.123	1.006	0.889	8.924
AVERAGE ANNUAL NET COST		1.487						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 6.359	COHORT1 7.626	COHORT2 6.932	COHORT3 6.302	COHORT4 5.729	COHORT5 5.208	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 15. 1000 MICROWATT PER SQ. CM MEDIUM COST

	TIME PERIOD							
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	10.076	7.268	6.784	6.299	5.814	5.330	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	129.324	132.132	132.616	133.101	133.586	134.070	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	4.845	4.845	4.845	4.845	4.845	
(-) DEPRECIATION	0.	0.	4.845	7.107	6.784	6.784	6.784	
TAXABLE INCOME	139.400	137.400	132.132	130.355	131.163	131.647	132.132	
GROSS TAX	43.874	42.954	40.531	39.713	40.085	40.308	40.531	
INVESTMENT TAX CREDIT	0.	3.230	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.724	40.531	39.713	40.085	40.308	40.531	
NET INCOME	95.526	89.601	91.601	92.903	93.016	93.278	93.539	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	10.076	7.268	6.784	6.299	5.814	5.330	41.570
TAX SAVINGS	0.	4.150	3.343	4.161	3.789	3.566	3.343	22.353
NET COMPLIANCE MEASURE COST	0.	5.925	3.925	2.623	2.510	2.248	1.987	19.218
AVERAGE ANNUAL NET COST		3.203						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 13.607	COHORT1 16.316	COHORT2 14.833	COHORT3 13.484	COHORT4 12.258	COHORT5 11.144	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 15. 1000 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD					TOTAL COSTS
		0	1	2	3	4	5	
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	13.391	9.802	9.148	8.495	7.842	7.188	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	126.009	129.598	130.252	130.905	131.558	132.212	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	6.535	6.535	6.535	6.535	6.535	
(-) DEPRECIATION	0.	0.	6.535	9.584	9.148	9.148	9.148	
TAXABLE INCOME	139.400	136.900	129.598	127.202	128.291	128.945	129.598	
GROSS TAX	43.874	42.724	39.365	38.263	38.764	39.065	39.365	
INVESTMENT TAX CREDIT	0.	4.356	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.368	39.365	38.263	38.764	39.065	39.365	
NET INCOME	95.526	87.641	90.233	91.989	92.141	92.494	92.847	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	13.391	9.802	9.148	8.495	7.842	7.188	55.866
TAX SAVINGS	0.	5.506	4.509	5.611	5.110	4.809	4.509	30.055
NET COMPLIANCE MEASURE COST	0.	7.885	5.293	3.537	3.385	3.032	2.679	25.811
AVERAGE ANNUAL NET COST		4.302						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 18.262	COHORT1 21.898	COHORT2 19.907	COHORT3 18.097	COHORT4 16.452	COHORT5 14.956	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 16. 2000 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	4.747	2.923	2.728	2.533	2.338	2.143	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	134.653	136.477	136.672	136.867	137.062	137.257	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	1.948	1.948	1.948	1.948	1.948	
(-) DEPRECIATION	0.	0.	1.948	2.858	2.728	2.728	2.728	
TAXABLE INCOME	139.400	137.900	136.477	135.763	136.088	136.283	136.477	
GROSS TAX	43.874	43.184	42.530	42.201	42.350	42.440	42.530	
INVESTMENT TAX CREDIT	0.	1.299	0.	0.	0.	0.	0.	
NET TAXES	43.874	41.885	42.530	42.201	42.350	42.440	42.530	
NET INCOME	95.526	92.768	93.948	94.471	94.517	94.622	94.727	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	4.747	2.923	2.728	2.533	2.338	2.143	17.412
TAX SAVINGS	0.	1.989	1.344	1.673	1.524	1.434	1.344	9.308
NET COMPLIANCE MEASURE COST	0.	2.758	1.578	1.055	1.009	0.904	0.799	8.103
AVERAGE ANNUAL NET COST		1.351						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 5.785	COHORT1 6.937	COHORT2 6.306	COHORT3 5.733	COHORT4 5.212	COHORT5 4.738	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 16. 2000 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	9.240	6.516	6.082	5.647	5.213	4.779	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	130.160	132.884	133.318	133.753	134.187	134.621	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	4.344	4.344	4.344	4.344	4.344	
(-) DEPRECIATION	0.	0.	4.344	6.371	6.082	6.082	6.082	
TAXABLE INCOME	139.400	137.400	132.884	131.291	132.015	132.449	132.884	
GROSS TAX	43.874	42.954	40.877	40.144	40.477	40.677	40.877	
INVESTMENT TAX CREDIT	0.	2.896	0.	0.	0.	0.	0.	
NET TAXES	43.874	40.058	40.877	40.144	40.477	40.677	40.877	
NET INCOME	95.526	90.102	92.007	93.174	93.276	93.510	93.745	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	9.240	6.516	6.082	5.647	5.213	4.779	37.477
TAX SAVINGS	0.	3.816	2.997	3.730	3.397	3.197	2.997	20.135
NET COMPLIANCE MEASURE COST	0.	5.424	3.519	2.352	2.250	2.016	1.781	17.341
AVERAGE ANNUAL NET COST		2.890						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 12.293	COHORT1 14.740	COHORT2 13.400	COHORT3 12.182	COHORT4 11.074	COHORT5 10.067	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 16. 2000 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	12.275	8.798	8.211	7.625	7.038	6.452	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	127.125	130.602	131.189	131.775	132.362	132.948	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	5.865	5.865	5.865	5.865	5.865	
(-) DEPRECIATION	0.	0.	5.865	8.602	8.211	8.211	8.211	
TAXABLE INCOME	139.400	136.900	130.602	128.452	129.429	130.016	130.602	
GROSS TAX	43.874	42.724	39.827	38.838	39.287	39.557	39.827	
INVESTMENT TAX CREDIT	0.	3.910	0.	0.	0.	0.	0.	
NET TAXES	43.874	38.814	39.827	38.838	39.287	39.557	39.827	
NET INCOME	95.526	88.311	90.775	92.351	92.488	92.805	93.121	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	12.275	8.798	8.211	7.625	7.038	6.452	50.398
TAX SAVINGS	0.	5.060	4.047	5.036	4.587	4.317	4.047	27.093
NET COMPLIANCE MEASURE COST	0.	7.215	4.751	3.175	3.038	2.721	2.405	23.305
AVERAGE ANNUAL NET COST		3.884						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 16.506	COHORT1 19.792	COHORT2 17.993	COHORT3 16.357	COHORT4 14.870	COHORT5 13.518	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 17. 5000 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	4.226	2.453	2.290	2.126	1.963	1.799	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	135.174	136.947	137.110	137.274	137.437	137.601	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	1.636	1.636	1.636	1.636	1.636	
(-) DEPRECIATION	0.	0.	1.636	2.399	2.290	2.290	2.290	
TAXABLE INCOME	139.400	137.900	136.947	136.347	136.619	136.783	136.947	
GROSS TAX	43.874	43.184	42.745	42.470	42.595	42.670	42.745	
INVESTMENT TAX CREDIT	0.	1.090	0.	0.	0.	0.	0.	
NET TAXES	43.874	42.094	42.745	42.470	42.595	42.670	42.745	
NET INCOME	95.526	93.080	94.201	94.641	94.679	94.767	94.855	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	4.226	2.453	2.290	2.126	1.963	1.799	14.858
TAX SAVINGS	0.	1.780	1.129	1.404	1.279	1.204	1.129	7.925
NET COMPLIANCE MEASURE COST	0.	2.446	1.325	0.885	0.847	0.759	0.671	6.933
AVERAGE ANNUAL NET COST		1.155						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 4.965	COHORT1 5.953	COHORT2 5.412	COHORT3 4.920	COHORT4 4.473	COHORT5 4.066	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 17. 5000 MICROWATT PER SQ. CM MEDIUM COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	8.049	5.444	5.081	4.718	4.355	3.992	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	131.351	133.956	134.319	134.682	135.045	135.408	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	3.629	3.629	3.629	3.629	3.629	
(-) DEPRECIATION	0.	0.	3.629	5.323	5.081	5.081	5.081	
TAXABLE INCOME	139.400	137.400	133.956	132.625	133.230	133.593	133.956	
GROSS TAX	43.874	42.954	41.370	40.758	41.036	41.203	41.370	
INVESTMENT TAX CREDIT	0.	2.420	0.	0.	0.	0.	0.	
NET TAXES	43.874	40.534	41.370	40.758	41.036	41.203	41.370	
NET INCOME	95.526	90.817	92.586	93.561	93.646	93.842	94.038	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	8.049	5.444	5.081	4.718	4.355	3.992	31.640
TAX SAVINGS	0.	3.340	2.504	3.116	2.838	2.671	2.504	16.974
NET COMPLIANCE MEASURE COST	0.	4.709	2.940	1.965	1.880	1.684	1.488	14.666
AVERAGE ANNUAL NET COST		2.444						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 10.418	COHORT1 12.492	COHORT2 11.357	COHORT3 10.324	COHORT4 9.386	COHORT5 8.532	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 17. 5000 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	10.689	7.370	6.878	6.387	5.896	5.404	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	128.711	132.030	132.522	133.013	133.504	133.996	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	4.913	4.913	4.913	4.913	4.913	
(-) DEPRECIATION	0.	0.	4.913	7.206	6.878	6.878	6.878	
TAXABLE INCOME	139.400	136.900	132.030	130.229	131.048	131.539	132.030	
GROSS TAX	43.874	42.724	40.484	39.655	40.032	40.258	40.484	
INVESTMENT TAX CREDIT	0.	3.275	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.449	40.484	39.655	40.032	40.258	40.484	
NET INCOME	95.526	89.263	91.546	92.866	92.981	93.246	93.512	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	10.689	7.370	6.878	6.387	5.896	5.404	42.624
TAX SAVINGS	0.	4.425	3.390	4.219	3.842	3.616	3.390	22.883
NET COMPLIANCE MEASURE COST	0.	6.263	3.980	2.660	2.545	2.280	2.014	19.742
AVERAGE ANNUAL NET COST		3.290						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 14.010	COHORT1 16.799	COHORT2 15.272	COHORT3 13.883	COHORT4 12.621	COHORT5 11.474	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 18. 10000 MICROWATT PER SQ. CM LOW COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	4.142	2.377	2.219	2.061	1.902	1.743	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	135.258	137.023	137.181	137.340	137.498	137.657	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	1.585	1.585	1.585	1.585	1.585	
(-) DEPRECIATION	0.	0.	1.585	2.325	2.219	2.219	2.219	
TAXABLE INCOME	139.400	137.900	137.023	136.441	136.706	136.864	137.023	
GROSS TAX	43.874	43.184	42.780	42.513	42.635	42.707	42.780	
INVESTMENT TAX CREDIT	0.	1.057	0.	0.	0.	0.	0.	
NET TAXES	43.874	42.127	42.780	42.513	42.635	42.707	42.780	
NET INCOME	95.526	93.131	94.242	94.668	94.705	94.791	94.876	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	4.142	2.377	2.219	2.061	1.902	1.743	14.444
TAX SAVINGS	0.	1.747	1.094	1.361	1.239	1.167	1.094	7.701
NET COMPLIANCE MEASURE COST	0.	2.395	1.284	0.858	0.821	0.735	0.650	6.743
AVERAGE ANNUAL NET COST		1.124						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 4.832	COHORT1 5.794	COHORT2 5.267	COHORT3 4.788	COHORT4 4.353	COHORT5 3.957	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 18. 10000 MICROWATT PER SQ. CM MEDIUM COST

			TIME PERIOD					
	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM 0	1	2	3	4	5	TOTAL COSTS
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	7.767	5.190	4.844	4.498	4.152	3.806	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	131.633	134.210	134.556	134.902	135.248	135.594	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	3.460	3.460	3.460	3.460	3.460	
(-) DEPRECIATION	0.	0.	3.460	5.075	4.844	4.844	4.844	
TAXABLE INCOME	139.400	137.400	134.210	132.941	133.518	133.864	134.210	
GROSS TAX	43.874	42.954	41.487	40.903	41.168	41.327	41.487	
INVESTMENT TAX CREDIT	0.	2.307	0.	0.	0.	0.	0.	
NET TAXES	43.874	40.647	41.487	40.903	41.168	41.327	41.487	
NET INCOME	95.526	90.986	92.723	93.653	93.734	93.921	94.107	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	7.767	5.190	4.844	4.498	4.152	3.806	30.257
TAX SAVINGS	0.	3.227	2.387	2.971	2.706	2.547	2.387	16.225
NET COMPLIANCE MEASURE COST	0.	4.540	2.803	1.873	1.792	1.605	1.419	14.032
AVERAGE ANNUAL NET COST		2.339						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 9.974	COHORT1 11.960	COHORT2 10.872	COHORT3 9.884	COHORT4 8.986	COHORT5 8.169	

TABLE D-3. (CONTINUED)

GUIDANCE LEVEL 18. 10000 MICROWATT PER SQ. CM HIGH COST

	PRE-GUIDELINE	GUIDELINE IMPOSED ON FIRM	TIME PERIOD 1	2	3	4	5	TOTAL COSTS
		0						
NET OPERATING INCOME BEFORE TAXES	139.400	139.400	139.400	139.400	139.400	139.400	139.400	
COMPLIANCE MEASURE GROSS CASH FLOW COST	0.	10.340	7.056	6.585	6.115	5.644	5.174	
OPERATING INCOME AFTER COMPLIANCE EXPENDITURES	139.400	129.060	132.344	132.815	133.285	133.756	134.226	
TAX PURPOSE ADJUSTMENT TO (+) AMORTIZATION	0.	0.	4.704	4.704	4.704	4.704	4.704	
(-) DEPRECIATION	0.	0.	4.704	6.899	6.585	6.585	6.585	
TAXABLE INCOME	139.400	136.900	132.344	130.620	131.404	131.874	132.344	
GROSS TAX	43.874	42.724	40.628	39.835	40.196	40.412	40.628	
INVESTMENT TAX CREDIT	0.	3.136	0.	0.	0.	0.	0.	
NET TAXES	43.874	39.588	40.628	39.835	40.196	40.412	40.628	
NET INCOME	95.526	89.472	91.716	92.980	93.089	93.343	93.597	
NET COST OF COMPLIANCE GROSS COMPLIANCE MEASURE COST	0.	10.340	7.056	6.585	6.115	5.644	5.174	40.914
TAX SAVINGS	0.	4.286	3.246	4.039	3.678	3.462	3.246	21.956
NET COMPLIANCE MEASURE COST	0.	6.054	3.810	2.546	2.437	2.183	1.929	18.958
AVERAGE ANNUAL NET COST		3.160						
PRESENT VALUE OF THE NET COST OF COMPLIANCE		AVERAGE 13.461	COHORT1 16.141	COHORT2 14.673	COHORT3 13.339	COHORT4 12.127	COHORT5 11.024	

Table D-4. THE NUMBER OF FM STATIONS REQUIRING MEASURES TO COMPLY WITH GUIDELINES LIMITING PUBLIC EXPOSURE TO RADIOFREQUENCY RADIATION IS GIVEN FOR 18 SPECIFIED GUIDANCE LEVELS. IT IS ASSUMED THAT STATIONS SELECT ONE OF FIVE COMPLIANCE MEASURES (2 THROUGH 6).

GUIDANCE LEVEL		FIX1	FIX2	FIX3	FIX4	FIX5	FIX6	SUB-TOTAL*	TOTAL**
1. 1 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	637	1592	129	776	129	3263	
ANALYSIS	MFMT	0	14	120	32	192	32	390	3653
MEDIUM COST	SFMT	0	637	1592	258	517	258	3262	
ANALYSIS	MFMT	0	14	120	64	128	64	390	3652
HIGH COST	SFMT	0	637	1592	388	258	388	3263	
ANALYSIS	MFMT	0	14	120	96	64	96	390	3653
2. 10 MICROWATT PER SQ. CM***									
LOW COST	SFMT	0	1052	1519	25	153	25	2774	
ANALYSIS	MFMT	0	59	140	15	91	15	320	3094
MEDIUM COST	SFMT	0	1052	1519	51	102	51	2775	
ANALYSIS	MFMT	0	59	140	30	61	30	320	3095
HIGH COST	SFMT	0	1052	1519	76	51	76	2774	
ANALYSIS	MFMT	0	59	140	45	30	45	319	3093
3. 20 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	1021	1028	12	76	12	2149	
ANALYSIS	MFMT	0	65	115	12	75	12	279	2428
MEDIUM COST	SFMT	0	1021	1028	25	51	25	2150	
ANALYSIS	MFMT	0	65	115	25	50	25	280	2430
HIGH COST	SFMT	0	1021	1028	38	25	38	2150	
ANALYSIS	MFMT	0	65	115	37	25	37	279	2429

*TOTAL NUMBER OF STATIONS REQUIRING A FIX AT THE SPECIFIED GUIDANCE LEVEL
SFMT=SINGLE FM TOWER, MFMT=MULTIPLE FM TOWER
**FACTORS ASSIGNING STATIONS AMONG FIXES 4,5 AND 6 CREATE ROUNDING ERRORS.
***THE NUMBER OF STATIONS REQUIRING FIX 2 INCREASES AT GUIDANCE LEVEL 2 BECAUSE GUIDANCE LEVEL 1 REQUIRES MORE STATIONS TO ADOPT MORE COMPLEX MITIGATION MEASURES.

Table D-4. (CONTINUED)

GUIDANCE LEVEL		FIX1	FIX2	FIX3	FIX4	FIX5	FIX6	SUB-TOTAL*	TOTAL**
4. 50 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	818	500	4	26	4	1352	
ANALYSIS	MFMT	0	83	86	7	42	7	225	1577
MEDIUM COST	SFMT	0	818	500	8	17	8	1351	
ANALYSIS	MFMT	0	83	86	14	28	14	225	1576
HIGH COST	SFMT	0	818	500	13	8	13	1352	
ANALYSIS	MFMT	0	83	86	21	14	21	225	1577
5. 75 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	733	345	3	18	3	1102	
ANALYSIS	MFMT	0	62	86	5	32	5	190	1292
MEDIUM COST	SFMT	0	733	345	6	12	6	1102	
ANALYSIS	MFMT	0	62	86	10	21	10	189	1291
HIGH COST	SFMT	0	733	345	9	6	9	1102	
ANALYSIS	MFMT	0	62	86	16	10	16	190	1292
6. 100 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	686	286	1	10	1	984	
ANALYSIS	MFMT	0	55	104	2	13	2	176	1160
MEDIUM COST	SFMT	0	686	286	3	6	3	984	
ANALYSIS	MFMT	0	55	104	4	8	4	175	1159
HIGH COST	SFMT	0	686	286	5	3	5	985	
ANALYSIS	MFMT	0	55	104	6	4	6	175	1160

*TOTAL NUMBER OF STATIONS REQUIRING A FIX AT THE SPECIFIED GUIDANCE LEVEL
SFMT=SINGLE FM TOWER, MFMT=MULTIPLE FM TOWER
**FACTORS ASSIGNING STATIONS AMONG FIXES 4,5 AND 6 CREATE ROUNDING ERRORS.

Table D-4. (CONTINUED)

GUIDANCE LEVEL		FIX1	FIX2	FIX3	FIX4	FIX5	FIX6	SUB-TOTAL*	TOTAL**
7. 200 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	460	166	0	1	0	627	
ANALYSIS	MFMT	0	43	77	0	5	0	125	752
MEDIUM COST	SFMT	0	460	166	0	1	0	627	
ANALYSIS	MFMT	0	43	77	1	3	1	125	752
HIGH COST	SFMT	0	460	166	0	0	0	626	
ANALYSIS	MFMT	0	43	77	2	1	2	125	751
8. 300 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	340	108	0	0	0	448	
ANALYSIS	MFMT	0	43	69	0	0	0	112	560
MEDIUM COST	SFMT	0	340	108	0	0	0	448	
ANALYSIS	MFMT	0	43	69	0	0	0	112	560
HIGH COST	SFMT	0	340	108	0	0	0	448	
ANALYSIS	MFMT	0	43	69	0	0	0	112	560
9. 400 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	233	80	0	0	0	313	
ANALYSIS	MFMT	0	42	58	0	0	0	100	413
MEDIUM COST	SFMT	0	233	80	0	0	0	313	
ANALYSIS	MFMT	0	42	58	0	0	0	100	413
HIGH COST	SFMT	0	233	80	0	0	0	313	
ANALYSIS	MFMT	0	42	58	0	0	0	100	413

*TOTAL NUMBER OF STATIONS REQUIRING A FIX AT THE SPECIFIED GUIDANCE LEVEL
SFMT=SINGLE FM TOWER, MFMT=MULTIPLE FM TOWER
**FACTORS ASSIGNING STATIONS AMONG FIXES 4,5 AND 6 CREATE ROUNDING ERRORS.

Table D-4. (CONTINUED)

GUIDANCE LEVEL		FIX1	FIX2	FIX3	FIX4	FIX5	FIX6	SUB-TOTAL*	TOTAL**
10. 500 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	188	64	0	0	0	252	
ANALYSIS	MFMT	0	43	50	0	0	0	93	345
MEDIUM COST	SFMT	0	188	64	0	0	0	252	
ANALYSIS	MFMT	0	43	50	0	0	0	93	345
HIGH COST	SFMT	0	188	64	0	0	0	252	
ANALYSIS	MFMT	0	43	50	0	0	0	93	345
11. 600 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	162	48	0	0	0	210	
ANALYSIS	MFMT	0	39	42	0	0	0	81	291
MEDIUM COST	SFMT	0	162	48	0	0	0	210	
ANALYSIS	MFMT	0	39	42	0	0	0	81	291
HIGH COST	SFMT	0	162	48	0	0	0	210	
ANALYSIS	MFMT	0	39	42	0	0	0	81	291
12. 700 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	134	42	0	0	0	176	
ANALYSIS	MFMT	0	38	31	0	0	0	69	245
MEDIUM COST	SFMT	0	134	42	0	0	0	176	
ANALYSIS	MFMT	0	38	31	0	0	0	69	245
HIGH COST	SFMT	0	134	42	0	0	0	176	
ANALYSIS	MFMT	0	38	31	0	0	0	69	245

*TOTAL NUMBER OF STATIONS REQUIRING A FIX AT THE SPECIFIED GUIDANCE LEVEL
SFMT=SINGLE FM TOWER, MFMT=MULTIPLE FM TOWER
**FACTORS ASSIGNING STATIONS AMONG FIXES 4,5 AND 6 CREATE ROUNDING ERRORS.

Table D-4. (CONTINUED)

GUIDANCE LEVEL		FIX1	FIX2	FIX3	FIX4	FIX5	FIX6	SUB-TOTAL*	TOTAL**
13. 800 MICROWATT PER SQ. CM									
LOW COST ANALYSIS	SFMT	0	123	35	0	0	0	158	
	MFMT	0	39	29	0	0	0	68	226
MEDIUM COST ANALYSIS	SFMT	0	123	35	0	0	0	158	
	MFMT	0	39	29	0	0	0	68	226
HIGH COST ANALYSIS	SFMT	0	123	35	0	0	0	158	
	MFMT	0	39	29	0	0	0	68	226
14. 900 MICROWATT PER SQ. CM									
LOW COST ANALYSIS	SFMT	0	107	31	0	0	0	138	
	MFMT	0	38	25	0	0	0	63	201
MEDIUM COST ANALYSIS	SFMT	0	107	31	0	0	0	138	
	MFMT	0	38	25	0	0	0	63	201
HIGH COST ANALYSIS	SFMT	0	107	31	0	0	0	138	
	MFMT	0	38	25	0	0	0	63	201
15. 1000 MICROWATT PER SQ. CM									
LOW COST ANALYSIS	SFMT	0	105	24	0	0	0	129	
	MFMT	0	39	20	0	0	0	59	188
MEDIUM COST ANALYSIS	SFMT	0	105	24	0	0	0	129	
	MFMT	0	39	20	0	0	0	59	188
HIGH COST ANALYSIS	SFMT	0	105	24	0	0	0	129	
	MFMT	0	39	20	0	0	0	59	188

*TOTAL NUMBER OF STATIONS REQUIRING A FIX AT THE SPECIFIED GUIDANCE LEVEL
SFMT=SINGLE FM TOWER, MFMT=MULTIPLE FM TOWER
**FACTORS ASSIGNING STATIONS AMONG FIXES 4,5 AND 6 CREATE ROUNDING ERRORS.

Table D-4. (CONTINUED)

GUIDANCE LEVEL		FIX1	FIX2	FIX3	FIX4	FIX5	FIX6	SUB-TOTAL*	TOTAL**
16. 2000 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	56	10	0	0	0	66	
ANALYSIS	MFMT	0	22	6	0	0	0	28	94
MEDIUM COST	SFMT	0	56	10	0	0	0	66	
ANALYSIS	MFMT	0	22	6	0	0	0	28	94
HIGH COST	SFMT	0	56	10	0	0	0	66	
ANALYSIS	MFMT	0	22	6	0	0	0	28	94
17. 5000 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	16	0	0	0	0	16	
ANALYSIS	MFMT	0	8	0	0	0	0	8	24
MEDIUM COST	SFMT	0	16	0	0	0	0	16	
ANALYSIS	MFMT	0	8	0	0	0	0	8	24
HIGH COST	SFMT	0	16	0	0	0	0	16	
ANALYSIS	MFMT	0	8	0	0	0	0	8	24
18. 10000 MICROWATT PER SQ. CM									
LOW COST	SFMT	0	3	0	0	0	0	3	
ANALYSIS	MFMT	0	0	0	0	0	0	0	3
MEDIUM COST	SFMT	0	3	0	0	0	0	3	
ANALYSIS	MFMT	0	0	0	0	0	0	0	3
HIGH COST	SFMT	0	3	0	0	0	0	3	
ANALYSIS	MFMT	0	0	0	0	0	0	0	3

*TOTAL NUMBER OF STATIONS REQUIRING A FIX AT THE SPECIFIED GUIDANCE LEVEL
SFMT=SINGLE FM TOWER, MFMT=MULTIPLE FM TOWER
**FACTORS ASSIGNING STATIONS AMONG FIXES 4,5 AND 6 CREATE ROUNDING ERRORS.